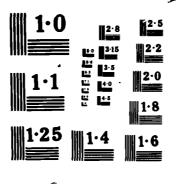
AD-A158 649 RADIOLOGIC CAREER LADDER AFSC 903X0(U) AIR FORCE OCCUPATIONAL MEASUREMENT CENTER RANDOLPH AFB TX JUL 85 1/1 UNCLASSIFIED F/G 5/9 NL



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OCCUPATIONAL REPORT

RADIOLOGIC CAREER LADDER,

AFSC 903X0, AFPT 90-903-525

JULY 1985



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OCCUPATIONAL ANALYSIS PROGRAM **USAF OCCUPATIONAL MEASUREMENT CENTER** AIR TRAINING COMMAND RANDOLPH AFB, TEXAS 78150

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PREFACE

This report presents the results of an Air Force occupational survey of the Radiologic career ladder (AFSC 903X0). The report was requested by the School of Health Care Sciences at Sheppard Air Force Base, Texas. Authority for conducting specialty surveys is contained in AFR 35-2. Computer products used in this report are available for use by operations and training officials.

First Lieutenant Beverly C. Handy, Inventory Development Specialist, developed the survey instrument used in this project. Ms Olga Velez provided computer support and Captain Everton R. Wallace analyzed the data and wrote the final report. Major Charles D. Gorman, Chief, Airman Career Ladders Analysis Section, reviewed the report and approved it for release.

Copies of this report are distributed to Air Staff sections, major commands, and other interested training and management personnel. Additional copies are available upon request to the Occupational Measurement Center, Attention: Chief, Occupational Analysis Branch (OMY), Randolph Air Force Base, Texas 78150-5000.

PAUL T. RINGENBACH, Colonel, USAF Commander USAF Occupational Measurement Center CHARLES D. GORMAN, Major, USAF
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SUMMARY OF RESULTS

- 1. <u>Survey Coverage</u>: The Radiologic job inventory was administered worldwide during 1984. Results are based on responses from 691 incumbents. This number represents 70 percent of the career field.
- 2. Career Ladder Structure: The results indicate the career field is very homogeneous. More than half the respondents fell into one job cluster—General Radiologic Technicians Cluster; however, several highly technical splinter groups, such as Computerized Tomography Technicians, Radiation Therapists, and Ultrasound Technicians, were identified. The survey identified 4 clusters with 10 job types and 10 independent job types.
- 3. Career Ladder Progression: The nature of the jobs performed changed as skill level and time in service increased. Three- and 5-skill level personnel performed very similar technical jobs, while 7-skill level personnel performed supervisory, as well as technical, tasks. AFR 39-1 was very accurate for the 7-skill level, but failed to mention special imaging procedures and radiotherapy at the 5-skill level.
- 4. CONUS/Overseas Comparison: There were only slight differences between CONUS and overseas groups. Radiologic personnel located at CONUS installations devoted more time to special radiographs while overseas personnel spent more time on administrative functions.
- 5. Training Analysis: Survey data generally supported the POI for Course 3ABR90330; however, areas of the course dealing with ultrasonography, radio-therapy, and computerized tomography should be considered for possible deletion because very few people work in these areas. Conversely, there are tasks performed by significant numbers of people that are not taught in the course. The STS had the same problems that were noted in the POI.
- 6. Implications: A more effective means of managing the reassignment of people in the most technical areas of this specialty should be developed. This should prevent reassignment to unrelated areas shortly after people become proficient. In addition, it does not seem cost-effective to cover these highly technical areas (computerized tomography, ultrasound, and radiation therapy) in the Phase I course. Further, AFR 39-1 should be revised to include special imaging procedures and radiation treatment of diseases at the 5-skill level. Finally, action should be taken to ensure retention of personnel in this specialty.

OCCUPATIONAL SURVEY REPORT RADIOLOGIC CAREER LADDER (AFSC 903X0)

INTRODUCTION

This is a report of an occupational survey of the Radiologic career ladder completed by the USAF Occupational Measurement Center in May 1985. The specialty was last surveyed in July 1978. This occupational survey was conducted in response to a request from the School of Health Care Sciences at Sheppard AFB, Texas, to examine training requirements for equipment new to the field (ultrasound and computerized tomography). Training personnel are also interested in determining how many incumbents are performing radiation therapy.

Background

This specialty was created in 1951 with the title of Radiology. In October of 1976, the title was changed to Radiologic Specialty. Since then, the name and function of the career ladder have not changed.

Personnel normally enter the Radiologic career ladder by first attending the J3ABR90330, Radiologic Specialist Course, at the School of Health Care Sciences, Sheppard AFB, Texas. These personnel may be either "pipeline" students from basic training or retrainees from other specialties. Upon completion of this 14-week course, graduates are awarded the 3-skill level. The graduates are next sent to one of several designated Air Force hospitals or medical centers where they are immediately entered into Course J5AZ090350, Radiologic Specialist (Phase II). After 6 months of this 38-week course, students may be awarded the 5-skill level. Satisfactory completion of both courses satisfies 1 year of the 2-year American Medical Association (AMA) accredited training program for certification as a Radiologic Technologist. The second year of training can be accomplished at any Air Force medical facility with a full-time radiologist on its staff. Many airmen, however, are assigned to medical facilities without a radiologist and, consequently, not all airmen will receive certification in their first assignment or first enlistment. The primary duties of the personnel in this specialty are to operate X-ray equipment to produce radiographs, assist radiologists or physicians with special and advanced radiographic procedures, assist radiotherapists in the treatment of disease by radiotherapy, and to enforce health protective measures to prevent overexposure to X-radiation or contamination by radioactive source materials.

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SURVEY METHODOLOGY

Inventory Development

USAF Job Inventory AFPT 90-903-525 (February 1984) was the data collection instrument used for this occupational survey. Using the survey instrument from the 1978 study as a starting point for the new task inventory, the developer and 25 subject-matter experts from 5 different bases refined and further developed the task list. Interview locations included at least one of each major type of Air Force medical facility. Categories of facilities are medical centers, regional hospitals, USAF (base) hospitals, and USAF clinics. The reasoning behind these visits is that, depending on size of the facility, the job performed will vary significantly. This is because the larger facilities (medical centers and regional hospitals) are usually supplied with the most modern equipment, and perform a greater variety of advanced procedures. The following bases were interview locations.

Wilford Hall - Medical Center
Sheppard AFB Hospital - Regional Hospital
Bergstrom AFB Hospital - Base Hospital
Randolph AFB Clinic - Large- to Medium-Size Clinic
Goodfellow AFB Clinic - Small Clinic

The resulting job inventory contained a comprehensive listing of 599 tasks under 16 duty headings and a background section requesting information such as grade, duty title, time in present job, and job satisfaction data.

Survey Administration

From March through November 1984, Consolidated Base Personnel Offices in operational units worldwide administered the survey to Radiologic personnel. Participants were selected from a computer-generated mailing list provided by the Air Force Human Resources Laboratory.

All individuals who filled out an inventory first completed an identification and biographical information section and then checked each task performed in their current job. Next, members rated the tasks on a 9-point scale showing relative time spent on each as compared to all other tasks. Ratings ranged from 1 (very small amount of time spent) to 9 (very large amount of time spent). Statistical analysis of these ratings permitted very precise estimates of the percent of time individuals spent on each task.

Survey Sample

Personnel in the survey were carefully selected to ensure an accurate representation across major commands (MAJCOM) and military paygrade. Table 1 shows how the final sample compared to the actual population of the career field in terms of their distribution across MAJCOMs. The table clearly shows each MAJCOM was proportionately represented. To further show how well sample distribution reflects the career field, Tables 2 and 3 compare the distribution of the population versus the sample on paygrade and Total Active Federal Military Service (TAFMS).

TABLE 1 COMMAND REPRESENTATION

COMMAND	PERCENT OF ASSIGNED	PERCENT OF SAMPLE
AAC	2	2
AFLC	6	7
AFSC	11	13
ATC	14	16
MAC	14	16
PACAF	4	3
SAC	16	16
TAC	15	13
USAFE	10	9
OTHER	8	5

TABLE 2
PAYGRADE DISTRIBUTION

PAYGRADE	PERCENT OF ASSIGNED	PERCENT OF SAMPLE
E-1 - E-3	40	36
E-4	26	25
E-5	19	22
E-6	9	10
E-7	6	7

TABLE 3
TAFMS DISTRIBUTION

MONTHS TAFMS	PERCENT OF ASSIGNED	PERCENT OF SAMPLE
1-48 MONTHS	55	51
49-96 MONTHS	22	22
97+ MONTHS	23	27

Data Processing and Analysis

Once job inventories are returned from the field, task response and back-ground information are optically scanned. Other biographical information (such as name, base, AUTOVON extension) are keyed onto disks and entered directly into the computer. Once both sets of data are in the computer, they are merged to form a complete case record for each respondent. Comprehensive Occupational Data Analysis Programs (CODAP) are then used to analyze the data.

CODAP produces job descriptions for groups of respondents, such as DAFSC groups, TAFMS groups, and MAJCOM groups. These descriptions provide information on percent members performing and average relative time spent on each task. In addition to these job descriptions, the computer produces summaries that show how members of each group responded to each background item. Background items identify characteristics of the group, such as DAFSCs represented, time in career field (TICF), TAFMS, experience in the various functional areas, and equipment operated.

The CODAP automated job clustering program organizes individual jobs into similar units of work by comparing each individual job description in the sample to every other job description in terms of tasks performed and the relative amount of time spent on each task in the job inventory. The automated system locates those two job descriptions with the most similar task ratings and combines them into a composite job description. In successive stages, the system adds more members to the initial group or forms new groups. The resulting analysis of job groups identifies the number and characteristics of jobs within the career ladder.

The basic group used in the clustering process is the Job Type. A job type is a group of individuals who perform many of the same tasks and spend similar amounts of time performing them. Next in the hierarchy is a subcluster. A subcluster is a group of individuals who perform related tasks, but which contains several specific job types that differ from one another, usually in minor ways. When several job types or subclusters are similar, they group together to form a cluster. When a job type is too dissimilar from other jobs to be included in a cluster or subcluster, it is called an Independent Job Type.

This kind of information is used to evaluate utilization policy and the variation in jobs within the specialty. Such data may also have implications, when used with other types of information, for career field documents and training programs. Such other types of information include independent ratings by supervisors on tasks, which are referred to as Task Factors.

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Task Factor Administration

In addition to completing the job inventory, selected senior 903X0 personnel (generally E-6 and E-7 technicians) were also asked to complete a second booklet for either training emphasis (TE) or task difficulty (TD). Major command distribution of these raters appears in Table 4. The TE and TD booklets are processed separately from the job inventories. The rating information is used in several analyses discussed in detail within this report.

Task Difficulty. Each senior technician completing a TD booklet was asked to rate all inventory tasks on a 9-point scale (from extremely low to extremely high) as to relative difficulty. Difficulty is defined as the length of time required by an average member to learn to do the task. Task difficulty data were independently collected from 38 experienced 7-skill level 903XO personnel stationed worldwide, with all raters assessing the difficulty of inventory tasks. The interrater reliability (as assessed through components of variance of standard group means) was .96. Task difficulty ratings were adjusted so tasks of average difficulty would have a 5.00 rating. The resulting data are essentially a rank ordering of tasks indicating the relative degree of difficulty for each task in the inventory.

Job Difficulty Index (JDI). After computing the 903X0 TD index for each task item, it was possible to compute a JDI for the job groups identified in the survey analysis. The index provides a relative measure of which jobs, when compared to other jobs identified, are more or less difficult. An equation using the number of tasks performed and the average difficulty per unit time spent (ADPUTS) as variables is the basis for the JDI. The index ranges from 1.0 for very easy jobs to 25.0 for very difficult jobs. The indices are adjusted so the average JDI is 13.0.

Training Emphasis. Experienced technicians completing TE booklets were asked to rate tasks on a 10-point scale ranging from no training required (0) to extremely heavy training required (9). Training emphasis is a rating of which tasks require more emphasis in structured training for first-term personnel. Structured training is defined as training provided at resident technical schools, field training detachments (FTD), mobile training teams (MTT), formal OJT, or any other organized training method. Training emphasis data were independently collected from 46 experienced 903X0 7-skill level personnel stationed worldwide. The interrater reliability (as assessed through components of variance of standard group means) for these raters was .97, indicating there was excellent agreement among raters as to which tasks required some form of structured training and which did not.

When used in conjunction with other information, such as percent members performing and task difficulty, TE ratings can provide insight into training requirements. Such insights may help validate lengthening or shortening portions of instruction supporting AFSC needed knowledges or skills.

TABLE 4

COMMAND DISTRIBUTION OF TASK DIFFICULTY AND TRAINING EMPHASIS RATERS

COMMAND	PERCENT OF ASSIGNED	PERCENT OF TD RATERS	PERCENT OF TE RATERS
AAC	2	0	2
AFLC	6	5	9
AFSC	11	10	11
ATC	14	17	22
MAC	14	14	15
PACAF	4	2	4
SAC	16	19	11
TAC	15	19	9
USAFE	10	10	15
OTHER	8	4	2

SPECIALTY JOBS (Career Ladder Structure)

One of the most important functions of the USAF Occupational Analysis Program is to identify the variety of jobs performed within a career field, as well as how these jobs relate to each other. The diversity of jobs is important to both the USAF Personnel Classification System and the training community. If jobs are diverse or specialized, shreds may serve as an effective force management tool. If, on the other hand, jobs have a lot in common, shreds and their attendant channelized training may unnecessarily burden both the classification and training systems.

Additionally, job information is used to analyze career progression patterns and career field documents (primarily AFR 39-1 Specialty Descriptions, Specialty Training Standards, and basic course Plans of Instruction) to identify needed changes. Job data are also used to identify morale (job satisfaction) problems, noteworthy trends, and other issues needing management attention.

Overview

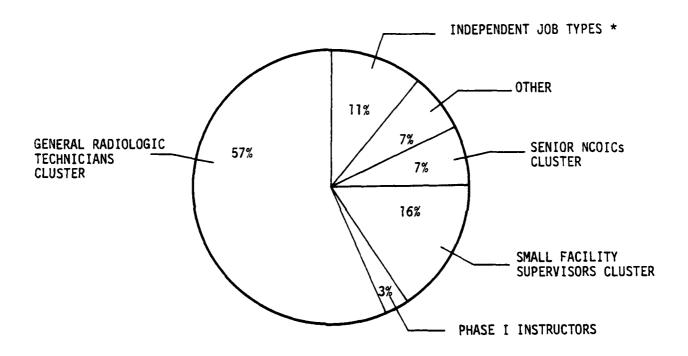
Analysis of the Radiologic specialty survey results identifies 4 clusters, 10 job types, and 10 independent job types. Figure 1 shows the distribution of these job groups. The groups broke out mainly on the type of procedures performed, which was often governed by size of the facility. Following is a list of job groups identified:

- I. GENERAL RADIOLOGIC TECHNICIANS CLUSTER (GRP107, N=395)
 - A. Clinic Radiotechnologists Job Type (GRP136, N=54)
 - B. Hospital Radiotechnologists Job Type (GRP146, N=298)
 - C. Medical Center Radiotechnologists Job Type (GRP121, N=41)
- II. SMALL FACILITY SUPERVISORS CLUSTER (GRP097, N=113)
 - A. Standard Procedures Supervisors Job Type (GRP099, N=81)
 - B. Ultrasound and Standard Procedures First-Line Supervisors Job Type (GRP102, N=32)
- III. STANDARD RADIOGRAPHERS FIRST-LINE SUPERVISORS INDEPENDENT JOB TYPE (GRP092, N=6)
- IV. STANDARD AND SPECIAL DIAGNOSTIC RADIOLOGISTS INDEPENDENT JOB TYPE (GRP087, N=10)
- V. HOSPITAL PHASE II COURSE SUPERVISORS AND INSTRUCTORS INDEPENDENT JOB TYPE (GRP078, N=9)

- VI. SPECIAL DIAGNOSTIC RADIOGRAPHERS INDEPENDENT JOB TYPE (GRP059, N=5)
- VII. ROTATING COMPUTERIZED TOMOGRAPHY TECHNICIANS INDEPENDENT JOB TYPE (GRP065, N=5)
- VIII. ANGIOGRAPHY TECHNICIANS INDEPENDENT JOB TYPE (GRP069, N=7)
 - IX. SENIOR NCOIC CLUSTER (GRP022, N=45)
 - A. Diagnostic Radiology NCOIC Job Type (GRP089, N=8)
 - B. Radiology NCOIC Job Type (GRP077, N=22)
 - C. Medical Center and Regional Hospital Phase II Course Supervisors Job Type (GRP088, N=7)
 - X. RADIATION THERAPISTS INDEPENDENT JOB TYPE (GRP070, N=7)
 - XI. ULTRASOUND TECHNICIANS INDEPENDENT JOB TYPE (GRP090, N=12)
- XII. ADMINISTRATIVE PERSONNEL INDEPENDENT JOB TYPE (GRP053, N=7)
- XIII. PHASE I INSTRUCTORS CLUSTER (GRP020, N=18)
 - A. A- and B-Shift Instructors Job Type (GRP050, N=5)
 - B. C-Shift Instructors Job Type (GRP051, N=7)
- XIV. COMPUTERIZED TOMOGRAPHY TECHNICIANS INDEPENDENT JOB TYPE (GRP049, N=5)

Ninety percent of the respondents to this survey fell into the groups mentioned above. The other 10 percent (70 people) were individuals whose jobs were unlike any other in the sample. The career field is structured so over half (57 percent) of the incumbents fall into 1 job cluster performing basic Radiologic functions. The remainder of the people are divided into smaller clusters and several specific independent job types. Tables in Appendix A list top tasks for each job group discussed.

FIGURE 1
MAJOR JOB GROUP DISTRIBUTION



* INDEPENDENT JOB TYPES

Standard Radiographers First-Line Supervisors (1%)
Standard and Special Diagnostic Radiologists (1%)
Hospital Phase II Course Supervisors and Instructors (2%)
Special Diagnostic Radiographers (1%)
Rotating Computerized Tomography Technicians (1%)
Angiography Technicians (1%)
Radiation Therapists (1%)
Ultrasound Technicians (2%)
Administrative Personnel (1%)
Computerized Tomography Technicians (1%)

JOB GROUP DESCRIPTIONS

I. GENERAL RADIOLOGIC TECHNICIANS CLUSTER (GRP107, N=395). This cluster is the largest of the 4 identified, accounting for 57 percent of the respondents. Members of this cluster are basic Radiographers. They are the technicians that most people will see when radiographs are required. The jobs performed by this group are very broad and include standard examinations such as bone X-rays. They also perform special procedures using barium and air contrast media. In addition, these people perform many of the required administrative functions. Some specific tasks performed by the cluster are listed below:

perform radiographic examinations of the chest
prepare and position patients for standard radiographic
examinations
load or unload cassettes
prepare film file envelopes
file radiographic films or reports
maintain film bins
produce radiographs during barium enemas
escort patients to or from litters or wheelchairs

Seventy-one percent of the people in the cluster hold the 5-skill level, while 21 percent and 8 percent hold the 3- and 7-skill levels, respectively. Only 18 percent of the cluster are assigned overseas. The cluster has an average grade of E-4 and 47 months of military service. Seventy percent of the incumbents are in their first enlistment.

Within the cluster, three job types were identified. The major distinguishing feature of each job type is the size of the facility to which the people are assigned.

- A. Clinic Radiotechnologists Job Type (GRP136, N=54). Members of this group perform many of the tasks common to the cluster; however, personnel stationed at clinics spend slightly more time on administrative functions than the other job types. Further, personnel in this job type were more senior than the other two job types. The average grade is E-5, with 84 months in service. Only 4 percent are 3-skill level. Seventy-two percent are 5-skill level and 24 percent are 7-skill level. More than half the group, 54 percent, are assigned overseas. Thirty-three percent of the incumbents are in their first enlistment.
- B. <u>Hospital Radiotechnologists Job Type (GRP146, N=298)</u>. The job description for this group is almost identical to that of the cluster. This job type contains a higher percentage of first-termers than the cluster, 59 percent.
- C. Medical Center Radiotechnologists Job Type (GRP121, N=41). The major difference between this job type and the rest of the cluster is this group is more specialized. The members spend more time on standard

examinations and less on other areas. The specialization is due to the fact that no one can be effective in all the available duty sections of a medical center. These people are assigned to sections that perform basic X-ray functions. Average grade for the group is E-3, with an average of 43 months service. The group is 27 percent 3-skill level, 68 percent 5-skill level, and 5 percent 7-skill level personnel. Seventy-eight percent of this job type are first-termers.

II. SMALL FACILITY SUPERVISORS CLUSTER (GRP097, N=113). Eighty percent of the people in this cluster are assigned to relatively small units such as hospitals or clinics. In addition, over 50 percent identified themselves as NCOICs of a radiology section or department. Apparently, at many small units the supervisors must also act as technicians. Personnel in this cluster perform tasks that are common to the other job cluster already discussed. In addition to standard, special, and administrative functions, these people are also supervising. They are primarily radiotechnologists and, as such, perform tasks like:

prepare and position patients for standard radiographic examinations shield patients during radiographic examinations prepare film file envelopes load or unload cassettes update patients nominal index card files determine exposure factors using standardized radiographic technique charts

In their secondary function, they perform tasks such as:

supervise Radiologic Specialists (AFSC 90350)
write APR
coordinate preventive maintenance of radiographic
equipment with medical equipment repair personnel
counsel personnel on personal or military-related
problems
direct patient care procedures

Personnel in this group are fairly senior. The average grade is E-5, and 132 months is the average TAFMS. The group is half 5-skill level and half 7-skill level personnel. Seventy-eight percent are CONUS based.

A. Standard Procedures Supervisors Job Type (GRP099, N=81). As with the cluster, this job type performs significant amounts of technical, as well as supervisory, tasks. Included in their job description are tasks such as:

perform radiographic examinations of the chest shield patients during radiographic examinations prepare film file folders load or unload cassettes supervise Radiologic Specialists (AFSC 90350) write justifications for equipment direct patient care procedures establish work priorities

The departments these people supervise are relatively small. Seventy-four percent of the group reported they supervise five or less people. Over 85 percent of these people are assigned to clinics or small hospitals. The average grade is E-6, while average TAFMS is 155 months. Fifty-nine percent hold the 7-skill level and only 3 percent are first-termers.

B. Ultrasound and Standard Procedures First-Line Supervisors Job Type (GRP102, N=32). Surprisingly, there are people in this group that work with ultrasound. The job performed by these people is primarily technical. About half of the group's time is spent performing standard radiographic examinations and ultrasonographic procedures. With a JDI of 17.9, the job performed by these people is one of the most difficult in the career ladder. Tasks often performed by the group include:

perform obstetric ultrasonography for fetal age determination perform obstetric ultrasonography for fetal anomalies perform gall bladder ultrasonography perform radiographic examinations of the chest perform radiographic examinations of the hand shield patients during radiographic examinations

Although 50 percent of these people identified themselves as supervisors, they spend less than 10 percent of their time performing supervisory functions. The average grade is E-4 and average TAFMS is 73 months. Six percent of the group hold the 3-skill level, 78 percent hold the 5-skill level, and 16 percent hold the 7-skill level. First-termers account for 38 percent of the job type.

III. STANDARD RADIOGRAPHERS FIRST-LINE SUPERVISORS INDEPENDENT JOB TYPE (GRP092, N=6). Personnel in this independent job type spend over half their time performing standard radiographic examinations. These six people also spend an additional 17 percent of their time on supervisory functions. The major difference between this group and GRP099 (IIA) is the size of the facilities to which they are assigned. These people are assigned to facilities of varying sizes while those in GRP099 are assigned to small facilities. Since these people are in larger facilities, they are more specialized and work primarily in one area—standard radiographs. Their job description includes the following tasks:

perform radiographic examinations of the abdomen perform radiographic examinations of the ankle perform radiographic examinations of the toes perform radiographic examinations of the nasal series perform radiographic examinations of the lumbar spine perform radiographic examinations of the sella turcica perform long bone studies perform bone age studies

The supervisory tasks that this group performed include:

supervise Radiologic Specialists (AFSC 90350) establish work priorities maintain call rosters of technologists plan or schedule work assignments

The average grade for this independent job type is E-5. They also average 109 months TAFMS. Of the six, one member is a 3-skill level, 3 are 5-skill level, and 2 are 7-skill level. Only one person is a first-termer.

IV. STANDARD AND SPECIAL DIAGNOSTIC RADIOLOGISTS INDEPENDENT JOB TYPE (GRP087, N=10). These people are assigned primarily to medical centers. The major part of their job deals with standard radiologic examinations and special radiographic procedures. About three-fourths of their time is spent in these two areas. The remainder of their time is divided between administration, radiographic film processing, and general services. Tasks performed by this group include:

perform radiographic examinations of the chest produce radiographs during upper gastrointestinal (UGI) series produce radiographs during barium swallow examinations prepare and position patients for standard radiographic examinations produce radiographs during barium enemas identify radiographic films with identifiers

These people are fairly junior with an average grade of E-3 and average TAFMS of 38 months. Of the 10, 4 are 3-skill level, 5 are 5-skill level, and only 1 is a 7-skill level. Eight of the 10 members are first-termers and all are assigned in CONUS.

V. HOSPITAL PHASE II COURSE SUPERVISORS AND INSTRUCTORS INDEPENDENT JOB TYPE (GRP078, N=9). As the job title suggests, these people are primarily assigned to hospitals as Phase II instructors or supervisors. They perform many of the tasks performed by most hospital technologists and, in addition, they supervise and instruct Phase II students. This group had one of the highest average number of tasks performed, 232. Further, their job difficulty index of 18.9 was the highest in the survey. The following list is a sample of tasks performed by this group:

supervise Apprentice Radiologic Specialists (AFSC 90330) evaluate progress of Phase II students update film folders assign personnel to duty positions

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participate in taking spot films during barium swallow examinations using 'luoroscopic equipment plan or schedule Phase II classroom training

Only about half the group indicated their job titles were Phase II supervisors or instructors. The remainder of the group said they were NCOICs or Radiologic Specialists. Through telephone contact, it was learned that, although some were not assigned as Phase II instructors, they often performed this function.

The average grade of the group was E-5 and average time in service was 91 months. There are four 5-skill level and five 7-skill level personnel in this independent job type. Two people were first-termers.

VI. SPECIAL DIAGNOSTIC RADIOGRAPHERS INDEPENDENT JOB TYPE (GRP059, N=5). This group of five individuals spent about a third of their time performing or participating in special radiographic procedures. Much of the job deals with fluoroscopes and contrast media. The job performed by this group is technical and includes very few supervisory tasks. Some of the tasks performed by this group are:

produce radiographs during air contrast enemas produce radiographs during barium enemas set up fluoroscopic equipment with TV monitor produce radiographs during arthrography produce radiographs during small bowel series produce radiographs during cystography

The average grade is E-4 and average time in service is 33 months. There is only one 3-skill level, the rest are 5-skill level personnel. Four of the five are first-termers.

VII. ROTATING COMPUTERIZED TOMOGRAPHY TECHNICIANS INDEPENDENT JOB TYPE (GRP065, N=5). All personnel in this independent job type are assigned to medical centers. The primary focus of their job is to operate the computerized tomography/total body (CT/T) scanners. In addition, these people perform administration, supervisory functions, special procedures, and standard procedures. Although primarily assigned to CT/T scanner units, these people often rotate to other sections in the Radiology Department. This differs from GRP049 (XIV) in that personnel in GRP049 are seldom, if ever, moved to different areas. Tasks performed by these people include:

schedule patients for radiographic examinations supervise Radiologic Specialists (AFSC 90350) perform priority queuing administer intravenous (IV) injections perform CT/T scanner archive procedures transcribe CT/T display console information onto permanent copy film perform reformations for CT/T scans

The state of the s

E-5 is the average grade and 106 months is the average time in service for this group. There is only one first-termer in the group and that person is also the only 3-skill level. There are two 5-skill level and two 7-skill level people in the group.

VIII. ANGIOGRAPHY TECHNICIANS INDEPENDENT JOB TYPE (GRP069, N=7). These medical center personnel spend about one-third of their time performing or participating in advanced radiologic procedures. The advanced procedure most often performed is angiography. In addition to performing the advanced procedures, these people set up equipment for advanced as well as special procedures. Further, they spend significant amounts of time processing radiographic film.

Examples of tasks performed by this group are listed below.

produce radiographs during abdominal angiography
produce radiographs during cerebral angiography
prepare and position patients for advanced radiographic
procedures
set up automatic pressure injectors
prepare equipment and supplies for special radiographic
procedures
mix chemical processing solutions

These people are all assigned to medical centers. Their average grade is E-4, with 50 months in service. Six of the seven people hold the 5-skill level. The others hold the 7-skill level. Five of the seven are first-termers.

IX. SENIOR NCOIC CLUSTER (GRP022, N=45). Members of this cluster spend over 80 percent of their time performing supervisory functions. They are the top-level supervisors and are removed from everyday performance of technical tasks. The few technical tasks these people perform are done to fill training needs—either OJT or Phase II training. Examples of tasks performed include:

write APR
plan or schedule work assignments
supervise Radiologic Specialists (AFSC 90350)
evaluate compliance with work standards
develop work methods or procedures
indorse airman performance reports (APR)
draft budget and financial requirements

People in this cluster average E-6 and 182 months TAFMS. There are no 3-skill level people in the cluster. Fifty-six percent are 5-skill level and 44 percent are 7-skill level people. Only one person is a first-termer.

A. Diagnostic Radiology NCOIC Job Type (GRP089, N=8). This job type was much like the cluster, except members perform even fewer technical tasks. This group spent 93 percent of their time supervising. They are assigned to

some of the larger medical facilities and supervise an average of 10 people. Examples of tasks performed by these NCOICs are shown below:

establish work priorities evaluate compliance with work standards supervise Radiologic Technicians (AFSC 90370) indorse airman performance reports (APR) edit or review incoming or outgoing correspondence conduct staff meetings

All members are 7-skill level or above and no first-term personnel were found in the job type. The average grade and TAFMS for the group was E-7 and 196 months, respectively.

B. Radiology NCOIC Job Type (GRP077, N=22). Although these people are as senior as Diagnostic Radiology NCOIC, they perform significantly more technical tasks. This group spends 73 percent of their time on supervisory tasks. In addition, they perform tasks often done by more junior personnel. Further, they spend far more time on administration than other supervisors in this cluster. Tasks performed by this cluster include:

supervise Radiologic Specialists (AFSC 90350) write justifications for equipment evaluate work standards prepare requests for local purchase of items evaluate budget or financial requirements inventory supplies, equipment, or tools

Not surprisingly, there are no 3-skill level or first-term personnel in this group. Of the 22 members, only 1 holds the 5-skill level, the rest are 7-skill level personnel. The group averages E-7 and 206 months TAFMS.

C. Medical Center and Regional Hospital Phase II Course Supervisors Job Type (GRP088, N=7). All members of this group are assigned to USAF regional hospitals or medical centers. These are the NCOICs responsible for the Phase II training at their particular facility. This group is senior to GRP078 (V) and, as such, spends more time actually supervising the Phase II Course. In addition to their Phase II duties, they spend significant amounts of time on other supervisory duties. One surprising note is that this group performs no standard radiographic examination. Some tasks performed by the group are listed below:

develop Phase II course lesson plans evaluate progress of Phase II students plan or schedule Phase II course classroom training conduct Phase II training conferences or briefings plan or schedule work assignments assign personnel to duty positions

The average grade for this group is E-6 and they average 160 months of military service. Of the seven, one person holds the 3-skill level, the rest hold the 7-skill level.

X. RADIATION THERAPISTS INDEPENDENT JOB TYPE (GRP070, N=7). The job performed by this group is very technical. They work directly with the doctors and patients. Much of the job involves checking therapy equipment and ensuring its safety. These people spend almost half their time performing radiation therapy and related tasks. In addition to radiation, they perform a few tasks in areas such as film processing, administration, and general services. Examples of tasks performed by this job type are shown below:

perform radiation therapy simulations perform mega voltage (Cobalt 60) therapy perform safety checks on cobalt therapy equipment establish rapport with patients undergoing radiotherapy fabricate shielding masks escort patients to or from litters or wheelchairs

The average grade for this group is E-5, while the average TAFMS is 84 months. Two members of the group hold the 7-skill level, the other five hold the 5-skill level. All members of the group are assigned within the CONUS.

XI. ULTRASOUND TECHNICIANS INDEPENDENT JOB TYPE (GRP090, N=12). This group of technicians is one of the most homogeneous groups in the survey. Of their top 50 tasks, only 1 was not directly related to performing ultrasonography procedures. Further, over 80 percent of their time was spent performing these procedures. The group performs a wide range of ultrasonography, but obstetric ultrasonography was performed most often. They perform tasks such as:

perform obstetric ultrasonography for fetal age determination
perform obstetric ultrasonography for localization of fetus
perform biliary system ultrasonography
perform liver ultrasonography
adjust contrast of ultrasonography cameras

The group averages E-5 for grade and 90 months for TAFMS. Half the people are 5-skill level and the other half are 7-skill level. Two of the 12 people are first-termers.

XII. ADMINISTRATIVE PERSONNEL INDEPENDENT JOB TYPE (GRP053, N=7. This group of seven people spend over 90 percent of their time performing administrative functions. On the average, they perform only about 10 tasks. These people have the least difficult job in the survey, with a JDI of only 1.0. The top tasks performed by these people include: are

prepare film file envelopes
update film folders
pick up, deliver, or sign out radiographic films to
physicians
file radiographic films or reports

match radiographic films to SF Forms 519A (Radiographic Report)
identify films received from hospitals, clinics, civilian facilities, or government agencies

E-4 is the average grade of these incumbents, with an average TAFMS of 59 months. One member of the group is a 3-skill level, the others are all 5-skill levels. Three people are in their first enlistment.

XIII. PHASE I INSTRUCTORS CLUSTER (GRP020, N=18). These 18 people are all Phase I instructors or instructor supervisors. Their primary function is to teach the basic course for new enlistees and cross-trainees. In performing this job, they perform many technical as well as supervisory tasks. Examples of tasks performed by this cluster include:

conduct Phase I classroom training score tests other than for Phase II course training write test questions other than for Phase II course training counsel personnel on personal or military-related problems inspect film for proper labeling visually inspect processing equipment

The average grade for these people is E-5. They average 89 months in TAPMS. Ten of the 18 hold the 5-skill level, while the rest hold the 7-skill level. Four people indicated they were first-termers.

A. A- and B-Shift Instructors Job Type (GRP050, N=5). These instructors operate under a standard classroom setup where training is scheduled and everyone goes at the same pace. In so doing, they perform about twice as many tasks as C-Shift Instructors. Tasks they perform include:

conduct Phase I course classroom training
visually inspect processing equipment
determine exposure factors using standard radiographic
techniques charts
maintain file bins
mix chemical processing solutions
evaluate progress of Phase I resident course students

Three 5-skill level and two 7-skill level people make up this group. Only one person is a first-termer. The average grade is E-5 and average TAFMS is 81 months.

B. C-Shift Instructors Job Type (GRP051, N=7). C-Shift Instructors perform very few tasks relative to other instructors. The reason is the students they instruct are self-paced. Since they don't demonstrate procedures and techniques as often as A- and B-Shift Instructors, C-Shift Instructors perform fewer technical tasks. Further, most tasks performed by C-Shift Instructors are performed by other instructors. Examples of tasks performed by this group are shown below:

evaluate progress of Phase I resident course students score tests other than for Phase II course training counsel trainees on training progress other than for Phase II course training evaluate training methods, techniques, or programs other than Phase II course training evaluate compliance with work standards

The average grade and TAFMS is E-5 and 69 months, respectively. There are two 7-skill level and five 5-skill level personnel in this group.

XIV. COMPUTERIZED TOMOGRAPHY TECHNICIANS INDEPENDENT JOB TYPE (GRP049, N=5). This small group of people spend over 65 percent of their time performing 12 tasks. These 12 tasks are all computerized tomography/total body related. These people differ from GRP065, Advanced Radiographers, in that they rarely perform duties outside the CT/T unit. No other duty area accounted for more than 5 percent of their time. Tasks performed include:

perform CT/T archive procedures
perform dynamic scans
perform reformations for CT/T scans
produce magnification radiographs for CT/T scans
schedule radiology services with other departments
transport patients on litters or wheelchairs

The group averages E-4 for grade and 71 months for TAFMS. There are four 5-skill level and one 7-skill level in the group. No member of the group is a first-termer.

Comparison of Specialty Jobs

For the majority of the 903X0 career ladder, jobs are very similar. These jobs differ only by the size of the facilities to which the people are assigned. These people could be called basic or general X-ray technicians; however, for the remainder of the career field, the jobs are very diverse. These jobs tend to be the independent job types discussed in the Career Ladder Structure section of this report.

General Radiologic Technicians Cluster (GRP107) is by far the largest cluster in the sample, accounting for 57 percent of the respondents. This cluster illustrates the homogeneity that can be found in this career ladder. Although over half the sample fell into this cluster, only three job types were identified. The major difference between the three job types is the size of the facility (clinic, hospital, medical center) to which members were assigned.

The independent job types tended to be very specialized and different from each other. They also tended to be very small groups (1 or 2 percent of the sample), spending a lot of time on one particular aspect of radiology.

Good examples of these job groups are CT/T technicians and radiation therapists. Most of these specialized personnel are assigned to large facilities, such as medical centers and regional hospitals.

Table 5 shows the job difficulty index, as well as the average number of tasks performed, for each job group. Note that Hospital Phase II Course Supervisors have the most difficult job, while Administrative Personnel have the easiest. Table 6 gives background information for all job groups.

Paygrade distribution for the AFS was as expected. Groups performing technical tasks have grade averages of E-3, E-4, and sometimes E-5. Those functioning as supervisors and managers averaged E-6 or E-7.

The skill level breakdown was much like that of the paygrade distribution. Three and 5-skill level personnel were most likely to be in technical job groups, while 7-skill level personnel were more likely to be in supervisory job groups. The only job group performing supervisory functions with less than half its members holding the 7-skill level was Small Facility Supervisors, GRP097. Only 47 percent of this group hold the 7-skill level. In all technical job groups, the majority of the members were 5-skill level personnel.

TABLE 5

JDI AND AVERAGE NUMBER OF TASKS PERFORMED BY JOB GROUPS

JOB GROUPS	JDI	AVERAGE NUMBER OF TASKS
HOSPITAL PHASE II COURSE SUPERVISORS AND		
INSTRUCTORS (GRP078, N=9)	18.9	232
ULTRASOUND AND STANDARD PROCEDURES FIRST-LINE		
SUPERVISORS (GRP102, N=32)	17.9	191
RADIOLOGY NCOIC (GRP077, N=22)		168
SMALL FACILITY SUPERVISORS (GRP097, N=113)	17.1	194
STANDARD PROCEDURES SUPERVISORS (GRP099, N=81)	16.8	153
ULTRASOUND TECHNICIANS (GRP090, N=12)	16.2	69
ROTATING COMPUTERIZED TOMOGRAPHY TECHNICIANS		
(GRP065, N=5)	13.9	105
HOSPITAL RADIOTECHNOLOGISTS (GRP136, N=54)	13.8	136
STANDARD RADIOGRAPHERS FIRST-LINE SUPERVISORS		
(GRP092, N=6)	13.5	108
SENIOR NCOIC CLUSTER (GRP22, N=45)	13.4	116
MEDICAL CENTER AND REGIONAL HOSPITAL PHASE II		
COURSE SUPERVISORS (GRP088, N=7)	13.4	67
GENERAL RADIOLOGIC TECHNICIANS (GRP107, N=395)	12.8	127
SPECIAL DIAGNOSTIC RADIOGRAPHERS (GRP059, N=5)		105
DIAGNOSTIC RADIOLOGY NCOIC (GRP089, N=8)	12.6	66
ANGIOGRAPHY TECHNICIANS (GRP069, N=7)	10.9	60
RADIATION THERAPISTS (GRP070, N=7)	10.9	73
CLINIC RADIOTECHNOLOGISTS (GRP136, N=54)	10.5	112
STANDARD AND SPECIAL DIAGNOSTIC RADIOLOGISTS		
(GRP087, N-10)	9.7	80
COMPUTERIZED TOMOGRAPHY TECHNICIANS (GRP049, N=5)	8.8	21
MEDICAL CENTER RADIOTECHNOLOGISTS (GRP121, N=41)	8.7	21
C-SHIFT INSTRUCTORS (GRP051, N=7)	7.9	19
A- AND B-SHIFT INSTRUCTORS (GRP050, N=5)	7.5	46
PHASE I INSTRUCTORS (GRP020, N=18)	7.1	27
ADMINISTRATIVE PERSONNEL (GRP053, N=7)	1.0	10

TABLE 6
SELECTED BACKGROUND INFORMATION FOR JOB GROUPS

	GENERAL		JOB TYPES	
	RADIOLOGIC	CLINIC	HOSPITAL	MEDICAL
	TECHNICIANS	RADIO-	RADIO-	CEN RADIO-
	CLUSTER	TECHNOLOGISTS	TECHNOLOGISTS	TECHNOLOGISTS
	(GRP107)	(GRP136)	(GRP146)	(GRP121)
NUMBER IN GROUP	395	54	298	41
PERCENT OF TOTAL SAMPLE	57 %	87	43%	6%
PERCENT IN CONUS	81%	447	87%	88%
DAFSC DISTRIBUTION (PERCENT				
RESPONDING)				
90330	21%	4%	24%	27%
90350	71%	72%	71%	68%
90370	87	24%	5%	5%
AVERAGE GRADE	E-4	E-5	E-4	E-3
AVERAGE MONTHS IN CAREER FIELD	44	84	41	43
AVERAGE MONTHS IN SERVICE	47	84	41	43
PERCENT IN FIRST ENLISTMENT	70%	33%	59%	78%
PERCENT SUPERVISING	17 %	24 %	16 %	19%
AVERAGE NUMBER OF TASKS PERFORMED	127	112	136	21
JOB DIFFICULTY INDEX (JDI)	127	112	130	21
(AVERAGE JDI=13.00)	12.8	10.5	13.7	8.7
MAJCOM DISTRIBUTION (PERCENT RESPONDING)				
AFLC	7 %	6Z	8%	7%
AFSC	117	7%	8%	39%
ATC	137	6%	14 Z	12%
MAC	15%	17%	15 %	12%
PACAF	4%	15%	17	7%
SAC	19%	11%	20%	10%
TAC	15%	6%	18%	5 %
USAFE	10%	26%	7%	5%

NOTE: Percentages may not equal 100 due to rounding

TABLE 6 (Continued)
SELECTED BACKGROUND INFORMATION FOR JOB GROUPS

ULTRASOUND	SELECTED BACKGROUND	INFORMATION FOR	JOB TYPES		
PERCENT OF TOTAL SAMPLE 16Z 12Z 15Z PERCENT IN CONUS 78Z 73Z 91Z DAFSC DISTRIBUTION (PERCENT RESPONDING) 90330 3Z 3Z 6Z 90350 50Z 38Z 78Z 90370 47Z 59Z 16Z AVERAGE GRADE E-5 E-6 E-4 AVERAGE MONTHS IN CAREER FIELD 109 125 67 AVERAGE MONTHS IN SERVICE 132 155 73 PERCENT IN FIRST ENLISTMENT 13Z 3Z 38Z PERCENT SUPERVISING 74Z 85Z 50Z AVERAGE NUMBER OF TASKS PERFORMED 194 153 191 JOB DIFFICULTY INDEX (JDI) (AVERAGE JDI=13.00) 17.1 16.8 17.9 MAJCOM DISTRIBUTION 5Z 6Z 3Z 3Z ATC 11Z 13Z 13Z ATC 11Z 13Z 13Z AMAC 10Z 9Z 9Z PACAF		FACILITY SUPERVISORS CLUSTER	STANDARD PROCEDURES SUPERVISORS	ULTRASOUND AND STANDARD PROCEDURES FIRST-LINE SUPERVISORS	
DAFSC DISTRIBUTION (PERCENT RESPONDING) 90330 37 37 387 787 787 917 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918 918	NUMBER IN GROUP	113	81	32	
DAFSC DISTRIBUTION (PERCENT RESPONDING) 90330	PERCENT OF TOTAL SAMPLE	16 %	12%	15 %	
RESPONDING) 90330 37 37 37 67 90350 507 387 787 90370 477 597 167 AVERAGE GRADE E-5 E-6 E-4 AVERAGE MONTHS IN CAREER FIELD 109 125 67 AVERAGE MONTHS IN SERVICE 132 155 73 PERCENT IN FIRST ENLISTMENT 137 37 387 PERCENT SUPERVISING 747 857 507 AVERAGE NUMBER OF TASKS PERFORMED 194 153 191 JOB DIFFICULTY INDEX (JDI) (AVERAGE JDI=13.00) 17.1 16.8 17.9 MAJCOM DISTRIBUTION AFLC 57 67 37 37 ATC 117 137 137 ATC 117 137 137 MAC 107 97 97 PACAF 47 67 67 SAC 247 217 317 TAC 207 257 257 USAFE 157 37 37	PERCENT IN CONUS	78 %	73%	91%	
90330 37 37 37 67 90350 507 38% 78% 90370 507 38% 78% 90370 47% 59% 16% 47% 59% 16% 47% 59% 16% 47% 59% 16% 47% 59% 16% 47% 59% 16% 47% 59% 16% 47% 59% 16% 47% 59% 16% 47% 47% 59% 16% 47% 47% 59% 16% 47% 47% 47% 47% 47% 47% 47% 47% 47% 47					
### AVERAGE GRADE	90330	3 %	3 %	6Z	
### AVERAGE GRADE	90350				
AVERAGE MONTHS IN CAREER FIELD AVERAGE MONTHS IN SERVICE 132 155 73 PERCENT IN FIRST ENLISTMENT PERCENT SUPERVISING AVERAGE NUMBER OF TASKS PERFORMED JOB DIFFICULTY INDEX (JDI) (AVERAGE JDI=13.00) 17.1 AFLC AFSC AFSC AFSC ATC 117 MAC 107 PACAF SAC 247 SAC 247 SAC SAC SAC 247 SAC SAC SAC SAC SAC SAC SAC SA	90370	47%	59%		
AVERAGE MONTHS IN SERVICE 132 155 73 PERCENT IN FIRST ENLISTMENT 13Z 3Z 38Z PERCENT SUPERVISING 74Z 85Z 50Z AVERAGE NUMBER OF TASKS PERFORMED 194 153 191 JOB DIFFICULTY INDEX (JDI) (AVERAGE JDI=13.00) 17.1 16.8 17.9 MAJCOM DISTRIBUTION AFLC 5Z 6Z 6Z AFSC 6Z 3Z 3Z ATC 11Z 13Z 13Z MAC 11Z 13Z 13Z MAC 10Z 9Z 9Z PACAF 4Z 6Z 6Z SAC 24Z 21Z 31Z TAC 20Z 25Z 25Z USAFE 15Z 3Z 3Z		E-5	E-6	E-4	
PERCENT IN FIRST ENLISTMENT 13Z 3Z 38Z PERCENT SUPERVISING 74Z 85Z 50Z AVERAGE NUMBER OF TASKS PERFORMED 194 153 191 JOB DIFFICULTY INDEX (JDI) (AVERAGE JDI=13.00) 17.1 16.8 17.9 MAJCOM DISTRIBUTION AFLC 5Z 6Z 6Z AFSC 6Z 3Z 3Z 3Z ATC 11Z 13Z 13Z MAC 10Z 9Z 9Z PACAF 4Z 6Z 6Z SAC 24Z 21Z 31Z TAC 20Z 25Z 25Z USAFE 15Z 3Z 3Z	AVERAGE MONTHS IN CAREER FIELD			67	
PERCENT SUPERVISING AVERAGE NUMBER OF TASKS PERFORMED 194 153 191 JOB DIFFICULTY INDEX (JDI) (AVERAGE JDI=13.00) 17.1 16.8 17.9 MAJCOM DISTRIBUTION AFLC AFSC 6Z AFSC 6Z 11Z 13Z ATC 11Z 13Z 13Z MAC 10Z 9Z PACAF 4Z 6Z 6Z SAC 24Z 21Z 31Z TAC 20Z 25Z USAFE 15Z 3Z 3Z	AVERAGE MONTHS IN SERVICE	132	155	73	
PERCENT SUPERVISING AVERAGE NUMBER OF TASKS PERFORMED 194 153 191 JOB DIFFICULTY INDEX (JDI) (AVERAGE JDI=13.00) 17.1 16.8 17.9 MAJCOM DISTRIBUTION AFLC AFSC 6Z AFSC 6Z 3Z 3Z ATC 11Z 13Z 13Z MAC 10Z 9Z PACAF 4Z 6Z 5Z 6Z 6Z 6Z 6Z 6Z 6Z 7Z	PERCENT IN FIRST ENLISTMENT	13%	37	38%	
JOB DIFFICULTY INDEX (JDI) (AVERAGE JDI=13.00) MAJCOM DISTRIBUTION AFLC AFSC AFSC 6Z 3Z 3Z ATC 11Z 13Z 13Z MAC 10Z 9Z PACAF 4Z 6Z 6Z 6Z 6Z 11Z 13Z 13Z 13Z 1	PERCENT SUPERVISING	74%	85%		
MAJCOM DISTRIBUTION AFLC 5Z 6Z 6Z AFSC 6Z 3Z 3Z ATC 11Z 13Z 13Z MAC 10Z 9Z 9Z PACAF 4Z 6Z 6Z SAC 24Z 21Z 31Z TAC 20Z 25Z 25Z USAFE 15Z 3Z 3Z		194	153	191	
AFLC 5Z 6Z 6Z AFSC 6Z 3Z 3Z ATC 11Z 13Z 13Z MAC 10Z 9Z 9Z PACAF 4Z 6Z 6Z SAC 24Z 21Z 31Z TAC 20Z 25Z 25Z USAFE 15Z 3Z 3Z	(AVERAGE JDI=13.00)	17.1	16.8	17.9	
AFSC 6Z 3Z 3Z 3Z ATC 11Z 13Z 13Z 13Z 13Z 13Z 13Z 13Z 13Z 13Z	MAJCOM DISTRIBUTION		· · · · · · · · · · · · · · · · · · ·		
ATC 117 137 137 137 MAC 107 97 97 97 PACAF 47 67 67 67 67 5AC 247 217 317 TAC 207 257 257 USAFE 157 37 37	AFLC	5%	6 %	6%	
ATC 117 137 137 137 MAC 107 97 97 97 PACAF 47 67 67 67 67 5AC 247 217 317 TAC 207 257 257 USAFE 157 37 37	AFSC	6%	37	3%	
PACAF 4Z 6Z 6Z SAC 24Z 21Z 31Z TAC 20Z 25Z 25Z USAFE 15Z 3Z 3Z	ATC	117	137		
SAC 24% 21% 31% TAC 20% 25% 25% USAFE 15% 3% 3%	MAC	10%	9%	9%	
TAC 20% 25% 25% USAFE 15% 3% 3%	PACAF			6%	
USAFE 15% 3% 3%	SAC			31%	
	TAC		25%	25%	
OTHER 57 147 47			3%		
	OTHER	5%	14%	4%	

NOTE: Percentages may not equal 100 due to rounding

TABLE 6 (Continued)
SELECTED BACKGROUND INFORMATION FOR JOB GROUPS

	STANDARD RADIOG- RAPHERS FIRST- LINE SUPVRS (GRP092)	STD AND SPECIAL DIAGNOSTIC RADIOL- OGISTS (GRP087)	HOSPITAL PHASE II COURSE SUPERVISORS & INSTRS (GRP078)	SPECIAL DIAG- NOSTIC RADIOG- RAPHERS (GRP059)	ROTATING COMPUTER- IZED TOMOGRAPHY TECHNS (GRP065)	ANGIOG- GRAPHY TECHNS (GRP069)
NUMBER IN GROUP	6	10	9	5	5	7
PERCENT OF TOTAL SAMPLE	*	17	17	*	*	1%
PERCENT IN CONUS	83%	100%	67%	60%	100%	867
DAFSC DISTRIBUTION (PERCENT RESPONDING)						
90330	17 %	40%	0%	20 %	20%	0 %
90350	50%	50 %	44%	80%	40%	86%
90370	337	10%	56%	0%	40%	14%
AVERAGE GRADE AVERAGE MONTHS IN CAREER	E-5	E-3	E- 5	E-4	E- 5	E-4
FIELD	79	36	81	29	99	48
AVERAGE MONTHS IN SERVICE	109	38	91	33	106	50
PERCENT IN FIRST						
ENLISTMENT	17%	80%	22%	80%	20%	72 %
PERCENT SUPERVISING	67%	20%	66%	20%	80%	29%
AVERAGE NUMBER OF TASKS						
PERFORMED	108	80	232	105	105	60
JOB DIFFICULTY INDEX (JDI)						
(AVERAGE JDI=13.00)	13.5	9.7	18.9	12.8	13.9	10.9
MAJCOM DISTRIBUTION					— · · · · · · · · · · · · · · · · · · ·	
AFLC	0%	10 Z	11%	0%	2 0%	43%
AFSC	16%	20%	0%	0%	2 0%	43%
ATC	16%	20%	117	20%	20 %	0%
MAC	16%	40%	0%	20%	40%	14%
PACAF	16%	0%	0%	40%	0%	0%
SAC	167	0%	117	20%	07	0%
TAC	16%	10%	117	0%	07	0%
USAFE	0%	0%	33%	07	07	07
OTHER	0%	0%	22%	0%	0%	07

*MOTE: Percentages may not equal 100 due to rounding

TABLE 6 (Continued)

SELECTED BACKGROUND INFORMATION FOR JOB GROUPS

		JOB TYPES			
	SENIOR NCOIC CLUSTER (GRP022)	DIAGNOSTIC RADIOLOGY NCOIC (GRP089)	RADIOLOGY NCOIC (GRP077)	MEDICAL CEN & REGIONAL HOSPITAL PHASE II COURSE SUPERVISORS (GRPO88)	
NUMBER IN GROUP	45	8	22	7	
PERCENT OF TOTAL SAMPLE PERCENT IN CONUS	7 % 93 %	1 % 75 %	3 % 100 %	1 % 75 %	
DAFSC DISTRIBUTION (PERCENT RESPONDING)			· · · · · · · · · · · · · · · · · · ·		
90330	07	0%	07	07	
90350	987	0%	5%	14%	
90370	78 %	100%	91%	86%	
AVERAGE GRADE	E-6	E-7	E-7	E-6	
AVERAGE MONTHS IN CAREER FIELD	148	123	180	138	
AVERAGE MONTHS IN SERVICE	182	146	205	160	
PERCENT IN FIRST ENLISTMENT PERCENT SUPERVISING	27 827	0 % 100 %	07 837	0Z 100Z	
AVERAGE NUMBER OF TASKS			140		
PERFORMED JOB DIFFICULTY INDEX (JDI) (AVERAGE	115	66	168	67	
JDI=13.00)	14.7	12.6	17.3	13.4	
MAJCOM DISTRIBUTION					
AFLC	7%	07	14%	29%	
AFSC	18%	25%	9%	0%	
ATC	13%	07	97	14%	
MAC	20%	25%	14%	43 %	
PACAF	4%	13%	0%	02	
SAC	16%	13%	23%	14%	
TAC	117	02	23%	0%	
USAFE	0%	07	0%	0%	
OTHER	117	25 %	8%	0%	

NOTE: Percentages may not equal 100 due to rounding

TABLE 6 (Continued)
SELECTED BACKGROUND INFORMATION FOR JOB GROUPS

NUMBER IN GROUP 7 12 7 PERCENT OF TOTAL SAMPLE 1Z 2Z 1Z PERCENT IN COMUS 100Z 92Z 100Z DAFSC DISTRIBUTION (PERCENT RESPONDING) 90330 0Z 0Z 14Z 90350 71Z 90Z 86Z 90370 29Z 50Z 10Z AVERAGE GRADE E-5 E-5 E-4 AVERAGE MONTHS IN CAREER FIELD 76 78 50 AVERAGE MONTHS IN SERVICE 84 90 59 PERCENT IN FIRST ENLISTMENT 29Z 17Z 43Z PERCENT SUPERVISING 28Z 42Z 14Z AVERAGE NUMBER OF TASKS PERFORMED 73 69 10 JOB DIFFICULTY INDEX (JDI) (AVERAGE JDI=13.00) 10.9 16.2 10 MAJCOM DISTRIBUTION AFIC 29Z 25Z 0Z AFSC 29Z 8Z 10Z AFSC 29Z 17Z 43Z MAC 14Z 17Z 57Z PACAF 0Z 0Z 0Z SAC 0Z 8Z 0Z TAC 0Z 8Z 0Z USAFE 0Z UT 0Z		RADIATION THERAPISTS (GRP070)	ULTRASOUND TECHNICIANS (GRP090)	ADMINISTRATIVE PERSONNEL (GRP053)
DAFSC DISTRIBUTION (PERCENT RESPONDING) 90330 07 07 907 867 90350 90370 297 507 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107		•	_	· ·
DAFSC DISTRIBUTION (PERCENT RESPONDING) 90330	* ··· · · · · · · · · · · · · · · ·			
RESPONDING) 90330 07 07 90350 717 907 867 90370 297 507 107 AVERAGE GRADE AVERAGE MONTHS IN CAREER FIELD 76 78 50 AVERAGE MONTHS IN SERVICE 84 90 59 PERCENT IN FIRST ENLISTMENT 297 177 437 PERCENT SUPERVISING 287 427 147 AVERAGE NUMBER OF TASKS PERFORMED 73 69 10 JOB DIFFICULTY INDEX (JDI) (AVERAGE JDI=13.00) 10.9 16.2 10 MAJCOM DISTRIBUTION AFLC 297 87 107 ATC 297 177 437 MAC 147 177 577 PACAF 07 07 07 07 10.9	PERCENT IN CONUS	100%	92%	100%
90350 71Z 90Z 86Z 90370 29Z 50Z 10Z	•			
AVERAGE GRADE	90330		0%	
AVERAGE GRADE AVERAGE MONTHS IN CAREER FIELD AVERAGE MONTHS IN SERVICE B4 90 59 PERCENT IN FIRST ENLISTMENT 29Z 17Z 43Z PERCENT SUPERVISING 28Z 42Z 14Z AVERAGE NUMBER OF TASKS PERFORMED JOB DIFFICULTY INDEX (JDI) (AVERAGE JDI=13.00) 10.9 16.2 10 MAJCOM DISTRIBUTION AFLC 29Z 25Z 0Z AFSC 29Z 3Z 17Z 43Z 10Z ATC 29Z 17Z 43Z MAC 14Z 17Z 57Z PACAF 0Z 0Z SAC 0Z TAC 0Z 8Z 0Z 0Z TAC 0Z 8Z 0Z 0Z 0Z 0Z 0Z 0Z 0Z 0Z	90350	71%	90%	86%
AVERAGE MONTHS IN CAREER FIELD 76 78 50 AVERAGE MONTHS IN SERVICE 84 90 59 PERCENT IN FIRST ENLISTMENT 29% 17% 43% PERCENT SUPERVISING 28% 42% 14% AVERAGE NUMBER OF TASKS PERFORMED 73 69 10 JOB DIFFICULTY INDEX (JDI) (AVERAGE JDI=13.00) 10.9 16.2 10 MAJCOM DISTRIBUTION AFIC 29% 8% 10% AFSC 29% 8% 10% ATC 29% 17% 43% MAC 29% 17% 43% MAC 14% 17% 57% PACAF 0% 0% 0% 0% 0% SAC 0% 8% 0% TAC 0% 8% 0% USAFE 0% 0% 0% 0% USAFE 0% 0% 0% 0%	90370	29%	50%	10%
AVERAGE MONTHS IN CAREER FIELD 76 78 50 AVERAGE MONTHS IN SERVICE 84 90 59 PERCENT IN FIRST ENLISTMENT 29% 17% 43% PERCENT SUPERVISING 28% 42% 14% AVERAGE NUMBER OF TASKS PERFORMED 73 69 10 JOB DIFFICULTY INDEX (JDI) (AVERAGE JDI=13.00) 10.9 16.2 10 MAJCOM DISTRIBUTION AFIC 29% 8% 10% AFSC 29% 8% 10% ATC 29% 17% 43% MAC 29% 17% 43% MAC 14% 17% 57% PACAF 0% 0% 0% 0% 0% SAC 0% 8% 0% TAC 0% 8% 0% USAFE 0% 0% 0% 0% USAFE 0% 0% 0% 0%	AVERAGE GRADE	E~5	E-5	E-4
AVERAGE MONTHS IN SERVICE 84 90 59 PERCENT IN FIRST ENLISTMENT 29% 17% 43% PERCENT SUPERVISING 28% 42% 14% AVERAGE NUMBER OF TASKS PERFORMED 73 69 10 JOB DIFFICULTY INDEX (JDI) (AVERAGE JDI=13.00) 10.9 16.2 10 MAJCOM DISTRIBUTION AFLC 29% 8% 10% AFSC 29% 8% 10% AFSC 29% 17% 43% 43% MAC 14% 17% 57% PACAF 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%				— ·
PERCENT SUPERVISING 28% 42% 14% AVERAGE NUMBER OF TASKS PERFORMED 73 69 10 JOB DIFFICULTY INDEX (JDI) (AVERAGE JDI=13.00) 10.9 16.2 10 MAJCOM DISTRIBUTION 29% 25% 0% AFSC 29% 8% 10% ATC 29% 17% 43% 43% ATC 29% 17% 43% 43% ATC 29% 17% 57% PACAF 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%			90	
PERCENT SUPERVISING 28% 42% 14% AVERAGE NUMBER OF TASKS PERFORMED 73 69 10 JOB DIFFICULTY INDEX (JDI) (AVERAGE JDI=13.00) 10.9 16.2 10 MAJCOM DISTRIBUTION 29% 25% 0% AFSC 29% 8% 10% ATC 29% 17% 43% 43% ATC 29% 17% 43% 43% ATC 29% 17% 57% PACAF 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	PERCENT IN PIRST ENLISTMENT	297	177	437
AVERAGE NUMBER OF TASKS PERFORMED 73 69 10 JOB DIFFICULTY INDEX (JDI) (AVERAGE JDI=13.00) 10.9 16.2 10 MAJCOM DISTRIBUTION AFLC 29% 25% 0% AFSC 29% 8% 10% ATC 29% 17% 43% ATC 29% 17% 43% MAC 14% 17% 57% PACAF 0% 0% 0% 0% SAC 0% 8% 0% TAC 0% 8% 0% USAFE 0% 0% 0% 0%				
JOB DIFFICULTY INDEX (JDI) (AVERAGE JDI=13.00) 10.9 10.9 16.2 10 MAJCOM DISTRIBUTION AFLC 29% 25% 0% AFSC 29% 8% 10% ATC 29% 17% 43% MAC 14% 17% 57% PACAF 0% 0% 0% 0% 0% 0% 0% USAFE 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%				
(AVERAGE JDI=13.00) 10.9 16.2 10 MAJCOM DISTRIBUTION AFSC 29% 25% 0% ATC 29% 17% 43% MAC 14% 17% 57% PACAF 0% 0% 0% SAC 0% 8% 0% TAC 0% 8% 0% USAFE 0% 0% 0%		, ,		
AFLC 29% 25% 0% AFSC 29% 8% 10% ATC 29% 17% 43% MAC 14% 17% 57% PACAF 0% 0% 0% 0% SAC 0% 8% 0% TAC 0% 8% 0% USAFE 0% 0% 0% 0%		10.9	16.2	10
AFLC 29% 25% 0% AFSC 29% 8% 10% ATC 29% 17% 43% MAC 14% 17% 57% PACAF 0% 0% 0% 0% SAC 0% 8% 0% TAC 0% 8% 0% USAFE 0% 0% 0% 0%	MAJCOM DISTRIBUTION			
AFSC 29% 8% 10% ATC 29% 17% 43% MAC 14% 17% 57% PACAF 0% 0% 0% SAC 0% 8% 0% TAC 0% 8% 0% USAFE 0% 0% 0%		297	25%	02
ATC 29% 17% 43% MAC 14% 17% 57% PACAF 0% 0% 0% SAC 0% 8% 0% TAC 0% 8% 0% USAFE 0% 0% 0%				
PACAF 0Z 0Z 0Z SAC 0Z 8Z 0Z TAC 0Z 8Z 0Z USAFE 0Z 0Z 0Z	ATC			437
SAC 0Z 8Z 0Z TAC 0Z 8Z 0Z USAFE 0Z 0Z 0Z	MAC			57%
TAC 07 87 07 USAFE 07 07 07	PACAF	0%		
USAFE 07 07 07	SAC	0%		
	TAC			
OTHER 0% 16% 0%	- -			
	OTHER	0%	16%	0%

NOTE: Percentages may not equal 100 due to rounding

TABLE 6 (Continued)
SELECTED BACKGROUND INFORMATION FOR JOB GROUPS

		JOB TY	PES	
	PHASE I INSTRUCTORS (GRP020)	A- AND B- SHIFT INSTRUCTORS (GRP050)	C-SHIFT INSTRUCTORS (GRP051)	COMPUTERIZED TOMOGRAPHY TECHNICIANS (GRP049)
NUMBER IN GROUP	18	5	7	5
PERCENT OF TOTAL SAMPLE	3	*	1	*
PERCENT IN CONUS	100%	100%	100%	100%
DAFSC DISTRIBUTION (PERCENT RESPONDING)				
90330	0%	0%	0%	0%
90350	56%	60%	71 %	80%
90370	647	40 Z	29%	20%
AVERAGE GRADE	E-5	E- 5	E-5	E-4
AVERAGE MONTHS IN CAREER FIELD	80	79	67	70
AVERAGE MONTHS IN SERVICE	89	81	69	71
PERCENT IN FIRST ENLISTMENT	22%	20%	63%	0%
PERCENT SUPERVISING	17%	20%	0%	407
AVERAGE NUMBER OF TASKS				40%
PERFORMED	27	46	19	21
JOB DIFFICULTY INDEX (JDI) (AVERAGE		, •		
JDI=13.00)	7.1	7.5	7.9	8.8
MAJCOM DISTRIBUTION				
AFLC	07	0%	0%	07
AFSC	0%	0%	0%	80%
ATC	947	100%	100%	0%
MAC	67	0%	0%	2 0 %
PACAF	07	0%	0%	07
SAC	07	0%	0 %	07
TAC	07	07	07	0%
USAFE	0%	0%	0%	0%
OTHER	0%	0%	0%	0%

*NOTE: Percentages may not equal 100 due to rounding

As expected, the groups with the most time in service were supervisors. Radiology NCOIC, GRP077, had the highest TAFMS, 205 months. Although Special Diagnostic Radiographers, GRP059, had an average grade of E-4 and 80 percent of the members hold the 5-skill level, they had the lowest TAFMS in the sample. They averaged only 33 months in service.

One possible problem was identified in the SPECIALTY JOB STRUCTURE. Many jobs in the field are based on the size of the facility to which the people are assigned. When people are reassigned to different size facilities, they are suddenly faced with equipment and procedures that differ from what they are used to. Such a situation can make new assignees ineffective until they gain experience in the new facility. A clear remedy for the problem does not present itself; nonetheless, career field managers need to be aware that the problem exists.

Job Satisfaction for Job Groups

Group job satisfaction data were examined to determine if morale problems exist in any job group. Table 7 shows the job satisfaction data for each job group. As the table shows, in most job groups, over 60 percent of the members find their jobs interesting. The only exception is GRP051, C-Shift Instructors. This may not indicate a problem, however, because two of the seven people did not respond to the question. The only group that felt their talents and training were not used well was Clinic Radiotechnologists, GRP136. One reason for the dissatisfaction may be that jobs at clinics are routine and limited.

Several groups indicated they were dissatisfied with the sense of accomplishment gained from their jobs. These groups are: Medical Center Radiotechnologists, GRP121; Administrative Personnel, GRP053; and Computerized Tomography Technicians, GRP049. The reason for such low sense of accomplishment is unknown.

When attention is focused on reenlistment intentions, problems appear in many groups. Less than 60 percent of the General Radiologic Technicians Cluster, GRP107, said they plan to reenlist. Further, there were three other groups where less than 60 percent plan to reenlist. These groups are: Special Diagnostic Radiographers, GRP059; Angiography Technicians, GRP069; and Ultrasound Technicians, GRP090.

TABLE 7

ł

JOB SATISFACTION DATA (PERCENT RESPONDING)

				SMALL PACILITY SUPERVISORS CLUSTER	JUSTER
	GENERAL RADIO	GENERAL RADIOLOGIC TECHNICIANS CHISTER	S CHSTER	(CRP097)	97)
		(GRP 107)	4415012 Or		ULTRASOUMD
	CLINIC RADIO-	HOGP 17AL RADIO-	MEDICA! CEN	STANDARD	PROCEDURES
	TECHNOLOGISTS (GRP136)	TECHNOLOGISTS (GRP146)	TECHNOLOCISTS (GRP 121)	SUPERVISORS (Grp000)	SUPERVISORS
NOW DO YOU FIND YOUR JOS					1001
TING	23			;	
SOURCE	123	13	22	10 12	en E
INTERNAL BANK WATER TAX TENED TO THE TAX TO	ç e	6/	99	78	4
MON WINL BUILD TOUR JOB UTILIZE YOUR TALENTS					
VERY LITTLE OR NOT AT ALL PAIRLY WELL OR BETTER		≾ ;	22	25	52
HOW WELL DORS YOUR JOB UTILIZE YOUR TRAINING	à	G.	9/	25	87
VERY LITTLE OR NOT AT ALL PAIRLY WELL OR BETTER	43	~ 3	11	28	vo
HOW SATISFIED ARE YOU WITH THE SENSE OF ACCOMPLISHMENT CAINED PROM YOUR JUB	`	7	80	70	7 6
DISSATISFIED AMBIVALENT	37	4	37	27	13
SATISFIED	61	72	n 30	4 9	0 0
DO YOU PLAN TO RERNLIST				3	ò
NO. WILL RETIKE MO OR PROBABLY NO	❤ !	-	7	22	c
TES OR PROBABLY YES	φ. Φ. Φ.	45 54 54	46 51	6 6 9	38 62

TABLE 7 (Continued)

JOB SATISFACTION (PERCENT RESPONDING)

	STANDARD RADIOGRAPHERS FIRST-LINE SUPERVISORS (GRP092)	STD AND SPECIAL DIAGNOSTIC RADIOLOGISTS GRPO87)	HOSPITAL PHASE II COURSE SUPERVISORS & INSTRS (GRP078)	SPECIAL DIAGNOSTIC RADIOGRAPHERS (GRP059)	ROTATING COMPUTERIZED TOMOGRAPHY TECHNICIANS (GRPD65)	AMCIOGRAPHY TECHNICIANS (GRP069)
sou find your jos						
Dull 80-80 Interesting	0 17 67	0 1 0 80	0 22 78	0 0 0	0 0 00	0 0 00
HOW WELL DOES YOUR JOB UTILIZE YOUR TALENTS						
VERY LITTLE OR NOT AT ALL PAIRLY WELL OR BETTER	9	06	0001	001	001	001
HOW WELL BORS YOUR JOR UTILIZE YOUR TRAINING						
VERY LITTLE OR HOT AT ALL PAIRLY WELL OR BETTER	17	20 70	9 00	001	0001	0 001
HOW SATISFIND ARE YOU WITH THE SENSE OF ACCOMPLISHMENT CAINED FROM YOUR JOB						
DISSATISFIKD AMBIVALENT SATISFIRD	2330	20 0 70	0 1 6	20 0 80 0	e 0 00 100	0 0 00
DO YOU PLAN TO REENLIST						
NO, WILL RETIRE NO OR PROBABLY NO YES OR PROBABLY YES	0 17 67	0 00 00 00	0 33 67	9 9 9	0 0 00	0 57 43

TABLE 7 (Continued)

JOB SATISFACTION DATA (PERCENT PERFORMING)

SENIOR MCOIC CLUSTER (GRP022)

DIAGNOSTIC RADIOLOGY RADIOLOGY WCOIC (GRP089) (GRP077)	DO YOU FIND YOUR JOB	0 0 14 100 77	HOW WELL DOES YOUR JOB UTILIZE YOUR	VERY LITTLE OR NOT AT ALL 0 91 100 91	NOW WELL DOES YOUR JOB UTILIZE YOUR TRAINING	VERY LITTLE OR MOT AT ALL 0 91 91 100 91	HOW SATISFIED ARK YOU WITH THE SENSE OF ACCOMPLISHMENT GAINED FROM YOUR JOB	13 18 13 9 75 73	DO YOU PLAN TO REENLIST	MO, WILL RETIRE 25 36 MO OK PROBABLY NO 0 9
6 RECTONAL HOSFITAL PHASE II COT COURSE SUPERVISORS 7) (GRP068)		4 0 8 8		001		100		29 0 71		777
RADIATION THERAPISTS (GRP070)		0 14 8 8		000		29		14 0 86		0 29 71
ULTRASOUND TECHNICIANS (GRP090)		0 0 0 0 0		0 001		100		0 001		58 58
ADMINISTRATIVE PERSONNEL (GRP053)		4. 0 8 6 0 8		29 71		7 98 7 9		0 43 57		0 29 71

TABLE 7 (Continued)

JOB SATISFACTION DATA (PERCENT RESPONDING)

	PHASE I INSTRU (GRP020)	PHASE I INSTRUCTORS CLUSTER (GRP020)	
	A- AND B- SHIFT	C-SHIFT	COMPUTERIZED TOMOGRAPHY
	INSTRUCTORS (GRP050)	INSTRUCTORS (GRP051)	(GRP049)
HOW DO YOU FIND YOUR JOB			
DULL	0	0	0
SO-S0	0 9	14	0 %
INIBARDITAG	100) (100
HOW WELL DOES YOUR JOB UTILIZE YOUR TALENTS			
VERY LITTLE OR NOT AT ALL	0	14	0
FAIRLY WELL OR BETTER	100	86	100
HOW WELL DOES YOUR JOB UTILIZE YOUR TRAINING			
VERY LITTLE OR NOT AT ALL	0	14	20
PAIRLY WELL OR BETTER	100	86	80
HOW SATISFIED ARE YOU WITH THE SENSE OF ACCOMPLISHMENT GAINED FROM YOUR JOB			
DISSATISFIED AMBIUALENT	07	14	20
SATISFIED	9	98	4 4
DO YOU PLAN TO REENLIST			
NO, WILL RETIRE	0 9	0 6	20
NO OR FROBABLY YES	09	71	09 9 0

ANALYSIS OF DAFSC GROUPS

An important aspect of any occupational analysis involves determining the nature of change in the tasks performed as skill level increases. Examination of the tasks performed by DAFSC groups is useful in determining the accuracy and completeness of the career ladder documents (AFR 39-1 Specialty Descriptions and the Specialty Training Standard).

The nature of the jobs performed by Radiologic personnel changed at the 7-skill level, with 3- and 5-skill level people performing equivalent jobs, except for areas of ultrasound computerized tomography, radiotherapy, and angiography. There were no 3-skill level people found in these job groups. As Table 8 illustrates, the performance of supervisory and management tasks increases as skill level increases, while performance of technical tasks decreases.

DAFSC 90330. The tasks performed by 3-skill level Radiologic personnel were overwhelmingly technical, with incumbents spending virtually all their time performing these tasks. The few nontechnical tasks were performed by less than 25 percent of the group and accounted for less than 2 percent of the group's time. Table 9 shows the top tasks performed by apprentice radiologic personnel. As is evident, standard radiologic examinations dominate the job description. Further, since 3-skill level people are still inexperienced, none were found in the more specialized areas of the specialty, such as computerized tomography, ultrasound angiography, and radiation therapy.

DAFSC 90350. The tasks performed by 5-skill level personnel were very similar to those commonly performed by 3-skill level airmen. The difference between the two groups is that 90330 personnel spend slightly more time on standard examinations, while 90350 personnel spend slightly more time on administrative functions. Table 10 shows the top tasks performed by 90350 personnel, while Table 11 shows the tasks that best distinguish the two groups. Note that most of the 5-skill level tasks are the same as for the 3-skill level people, although some 5-skill level personnel were found in the specialized jobs that contained no 3-skill level people.

DAFSC 90370. While 7-skill level personnel perform both supervisory and technical tasks, only 40 percent of their time is spent supervising. The technical tasks most often performed by 7-skill level people include those commonly performed by other skill level personnel. As a result of performing a mix of both technical and supervisory functions, 90370 personnel perform more tasks than other groups. Table 12 shows the top tasks performed by 90370 personnel. Table 13 shows the tasks that best distinguish 90370 and 90350 personnel. Seven-skill level people were found in almost all job groups. Not surprisingly, however, the senior supervisory job groups were made up almost exclusively of 7-skill level people.

AFR 39-1. The survey data were compared to AFR 39-1 to determine whether the specialty descriptions accurately portray the major duties and functions performed by Radiologic personnel. The 7-skill level description was very clear and complete. The 5-skill level description, however, was lacking in one area. The description should include assist with special imaging procedures

and assist radiotherapists in radiation treatment of diseases. Two job groups were identified that perform tasks related to these areas. In both groups, 5-skill level personnel were involved.

ABLE 8

RELATIVE TIME SPENT ON DUTIES BY 903X0 SKILL LEVEL GROUPS

1	TASKS	90330	90350	90370
¥	ORGANIZING AND PLANNING	*	2	10
~	DIRECTING AND IMPLEMENTING	~	2	01
ပ	INSPECTING AND EVALUATING	*	-	7
0	PHASE I AND ON-THE-JOB TRAINING	*	2	s
œ	PHASE II TRAINING	*	*	7
E 4	PERFORMING ADMINISTRATIVE PROCEDURES	11	14	15
9	PERFORMING STANDARD RADIOGRAPHIC EXAMINATIONS	45	36	2
Ħ	PERFORMING OR PARTICIPATING IN SPECIAL RADIOGRAPHIC			
	PROCEDURES	16	12	5
-	PERFORMING OR PARTICIPATING IN ADVANCED RADIOGRAPHIC			
	PROCEDURES	2	က	-
ר	PERFORMING ULTRASONOGRAPHY PROCEDURES	-	3	5
×	SETTING UP SPECIALIZED RADIOGRAPHIC EQUIPMENT	_	_	1
	PERFORMING OR PARTICIPATING IN BEDSIDE AND SURGICAL			
	RADIOGRAPHY	7	9	7
X	PROCESSING RADIOGRAPHIC FILM	10	6	œ
Z	PERFORMING RADIATION THERAPY	*	-	~
0	PERFORMING QUALITY CONTROL FUNCTIONS	2	3	m
<u>a</u>	PERFORMING GENERAL SERVICES	3	4	4

TABLE 9

TOP TASKS PERFORMED BY 90330 PERSONNEL (PERCENT MEMBERS PERFORMING)

TASKS		PERCENT MEMBERS PERFORMING
G179	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CHEST PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ABDOMEN PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FINGERS PERFORM RADIOGRAPHIC EXAMINATIONS OF THE WRIST PREPARE AND POSITION PATIENTS FOR STANDARD RADIOGRAPHIC EXAMINATIONS PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LUMBAR SPINE PERFORM RADIOGRAPHIC EXAMINATIONS OF THE TOES PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ELBOW PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HAND PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HAND PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ANKLE PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOOT PERFORM RADIOGRAPHIC EXAMINATIONS OF THE KNEE PERFORM RADIOGRAPHIC EXAMINATIONS OF THE EXECUTED SHIELD PATIENTS DURING RADIOGRAPHIC EXAMINATIONS PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOREARM PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SHOULDER PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HIPS LOAD OR UNLOAD CASSETTES	95
G174	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ABDOMEN	95
G185	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FINGERS	95
G215	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE WRIST	95
G216	PREPARE AND POSITION PATIENTS FOR STANDARD RADIOGRAPHIC	
	EXAMINATIONS	94
G274	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LUMBAR SPINE	94
G214	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE TOES	94
G182	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ELBOW	94
G213	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE THORACIC SPINE	94
G188	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HAND	93
G176	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ANKLE	93
G187	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOOT	93
G192	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE KNEE	93
G178	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CERVICAL SPINE	93
G227	SHIELD PATIENTS DURING RADIOGRAPHIC EXAMINATIONS	93
G186	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOREARM	93
G207	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SHOULDER	93
G189	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HIPS	93
M445	LOAD OR UNLOAD CASSETTES PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PARANASAL SINUSES PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LOWER LEG PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FEMUR PREPARE EQUIPMENT AND MATERIALS FOR STANDARD RADIOGRAPHIC	92
G199	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PARANASAL SINUSES	92
G193	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LOWER LEG	92
G184	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FEMUR	92
G217	PREPARE EQUIPMENT AND MATERIALS FOR STANDARD RADIOGRAPHIC	
	EXAMINATIONS	91
G202	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE RIBS	91
G177	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CALCANEOUS	
	(OS CALCIS)	91
G201	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PELVIS	90
G190	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HUMERUS	88
G175	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ACROMIO-	
	CLAVICULAR (A-C) JOINTS	88
G181	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE COCCYX	88
G180	PREPARE EQUIPMENT AND MATERIALS FOR STANDARD RADIOGRAPHIC EXAMINATIONS PERFORM RADIOGRAPHIC EXAMINATIONS OF THE RIBS PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CALCANEOUS (OS CALCIS) PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PELVIS PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HUMERUS PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ACROMIO— CLAVICULAR (A-C) JOINTS PERFORM RADIOGRAPHIC EXAMINATIONS OF THE COCCYX PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CLAVICLE PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FACIAL BONES PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SACROILIAC (S-I)	87
G183	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FACIAL BONES	87
G203	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SACROILIAC (S-I)	
	JOINTS	87

TABLE 10 TOP TASKS FOR 90350 PERSONNEL (PERCENT MEMBERS PERFORMING)

TASKS						PERCENT MEMBERS PERFORMING
M445	LOAD OR	UNLOAD CASSET	TES		PELVIS CHEST FEMUR LOWER LEG RD RADIOGRAPHIC FINGERS KNEE ABDOMEN CERVICAL SPINE FOREARM	85
G201	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	PELVIS	85
G179	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	CHEST	85
G184	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	FEMUR	85
G193	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	LOWER LEG	85
G216	PREPARE	AND POSITION	PATIENTS FOR	STANDA	RD RADIOGRAPHIC	
	EXAMI	NATIONS				84
G185	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	FINGERS	84
G192	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	KNEE	84
G174	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	ABDOMEN	84
G178	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	CERVICAL SPINE	84
G186	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	FOREARM DARD RADIOGRAPHIC	84
G217	PREPARE	EQUIPMENT AND	MATERIALS F	OR STAN	DARD RADIOGRAPHIC	
	EXAMI	NATIONS				84
G194	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	LUMBAR SPINE	84
G207	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	SHOULDER	84
G182	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	ELBOW	84
G189	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	LUMBAR SPINE SHOULDER ELBOW HIPS INATIONS ANKLE HAND PATELLA RIBS FOOT TOES THORACIC SPINE CLAVICLE HUMERUS WRIST CALCINEOUS	84
G227	SHIELD I	PATIENTS DURIN	G RADIOGRAPH:	IC EXAM	INATIONS	84
G176	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	ANKLE	84
G188	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	HAND	84
G200	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	PATELLA	84
G202	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	RIBS	84
G187	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	FOOT	83
G214	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	TOES	83
G213	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	THORACIC SPINE	83
G180	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	CLAVICLE	83
G190	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	HUMERUS	83
G215	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	WRIST	83
G177	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	CALCINEOUS	
	(OS CA	ALCIS)				83
G199	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	PARANASAL SINUSES	82
F174	PREPARE	FILM FILE ENV	ELOPES			82
G209	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	SKULL WITHOUT HEAD	
	UNITS					81
G203	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	SACROILIAC (S-I)	
	JOINTS	3				81
G204	PERFORM	RADIOGRAPHIC	EXAMINATIONS	OF THE	SACRUM	81

TABLE 11

TASKS THAT BEST DISTINGUISH DAPSC 90330 AND DAPSC 90350 PERSONNEL

TASKS		DAFSC 90350	DAPSC 90350	DIFFERENCE
H233	PARTICIPATE IN TAKING SPOT FILMS DURING BARIUM ENEMAS			
	202	99	94	+20
H249	PRODUCE RADIOGRAPHS DURING BARIUM ENEMAS	80	09	+20
H234	PARTICIPATE IN TAKING SPOT FILMS DURING BARIUM SWALLOW			
	EXAMINATIONS USING FLUOROSCOPIC EQUIPMENT	99	44	+20
G208	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SKULL WITH HEAD			
	UNITS, SUCH AS PRANKLIN	53	35	-18
1288	COPY RADIOCRAPHS	9 9	94	+18
H250	PRODUCE RADIOGRAPHS DURING BARIUM SWALLOW EXAMINATIONS	78	09	-18
H231	PARTICIPATE IN TAKING SPOT FILMS DURING AIR CONTRAST			
	ENEMAS USING PLUOROSCOPIC EQUIPMENT	99	47	-17
H246	PRODUCE RADIOGRAPHS DURING AIR CONTRAST ENEMAS	9/	59	+17
H273	PRODUCE RADIOGRAPHS DURING SMALL BOWEL SERIES	9/	09	+16
H240	PARTICIPATE IN TAKING SPOT FILMS DURING UPPER GASTRO-			
	INTESTINAL (UGI) SERIES USING PLUOROSCOPIC EQUIPMENT	09	45	+15
H275	PRODUCE RADIOGRAPHS DURING UPPER GASTROINTESTINAL (UGI)			
	SERIES	71	57	+16
H239	PARTICIPATE IN TAKING SPOT PILMS DURING SMALL BOWEL SERIES			
	USING PLUOROSCOPIC EQUIPMENT	58	45	+13
C168	MEASURE PATIENTS USING CALIPERS	78	65	+13
H258	PRODUCE RADIOGRAPHS DURING MYELOGRAPHY	45	33	+12
G215	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE WRIST	95	83	+12
F141	MAINTAIN TECHNIQUE CHARTS FOR RADIOGRAPHIC UNITS	16	31	-15
F134	INVENTORY SUPPLIES, EQUIPMENT, OR TOOLS	18	33	-15
F128	ASSIGN IDENTIFICATION TO RADIOGRAPHIC RECORDS	41	57	-16
A10	ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES	0	91	-16
F136	MAIL RADIOGRAPHIC FILMS	32	67	-17
B 31	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED PROBLEMS	2	19	-17

TABLE 12

TOP TASKS FOR 90370 PERSONNEL (PERCENT MEMBERS PERFORMING)

TASKS	SUPERVISE RADIOLOGIC SPECIALISTS (AFSC 90350) WRITE APR ASSIGN PERSONNEL TO DUTY POSITIONS FILE RADIOGRAPHIC FILMS OR REPORTS LOAD OR UNLOAD CASSETTES PREPARE FILM FILE ENVELOPES UPDATE FILM FOLDERS	PERCENT MEMBERS PERFORMING
B51	SUPERVISE RADIOLOGIC SPECIALISTS (AFSC 90350)	84
C74	WRITE APR	83
Al	ASSIGN PERSONNEL TO DUTY POSITIONS	76
F131	FILE RADIOGRAPHIC FILMS OR REPORTS	74
M445	LOAD OR UNLOAD CASSETTES	74
F152	PREPARE FILM FILE ENVELOPES	72
F163	UPDATE FILM FOLDERS	72
F164	UPDATE PATIENT NOMINAL INDEX CARD FILES	72
B31	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED PROBLEMS	71
P543	PARTICIPATE IN DISASTER EXERCISES	71
F151	PICK UP, DELIVER, OR SIGN OUT RADIOGRAPHIC FILMS TO	
	PHYSICIANS	70
F150	MATCH RADIOGRAPHIC FILMS TO SF FORMS 519A (RADIOGRAPHIC	
	REPORT)	70
A22	PLAN OR SCHEDULE WORK ASSIGNMENTS	69
G179	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CHEST	67
G176	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ANKLE	67
B30	REPORT) PLAN OR SCHEDULE WORK ASSIGNMENTS PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CHEST PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ANKLE COORDINATE PREVENTIVE MAINTENANCE OF RADIOGRAPHIC EQUIPMENT WITH MEDICAL EQUIPMENT REPAIR PERSONNEL	
	WITH MEDICAL EQUIPMENT REPAIR PERSONNEL	67
M459	VISUALLY INSPECT PROCESSING EQUIPMENT	67
G216	PREPARE AND POSITION PATIENTS FOR STANDARD RADIOGRAPHIC	
	EXAMINATIONS PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HAND PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FINGERS	67
G188	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HAND	67
G185	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FINGERS	67
	INVENTORY SUPPLIES, EQUIPMENT, OR TOOLS	67
M451	INVENTORY SUPPLIES, EQUIPMENT, OR TOOLS PERFORM AUTOMATIC FILM PROCESSOR TURN-ON PROCEDURES PERFORM AUTOMATIC FILM PROCESSOR TURN-OFF PROCEDURES	67
M450	PERFORM AUTOMATIC FILM PROCESSOR TURN-OFF PROCEDURES	67
G194	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LUMBAR SPINE PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOREARM PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CERVICAL SPINE PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SHOULDER	67
G186	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOREARM	67
G178	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CERVICAL SPINE	67
G207	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SHOULDER	67
G182	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ELBOW	67
G209	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SKULL WITHOUT	
	HEAD UNITS	67
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HIPS	67
B44	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR	
	SUBORDINATES	66
G187	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOOT	66
G199	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PARAMASAL SINUSES	66

TABLE 13

TASKS WHICH BEST DISTINGUISH DAPSC 90350 AND DAPSC 90370 PERSONNEL

TASKS		DAPSC 90350	DAFSC 90370	DIFFERENCE
L426	PRODUCE RADIOGRAPHS IN INTENSIVE CARE	53	27	+26
H425	PREPARE EQUIPMENT AND SUPPLIES FOR SPECIAL RADIOGRAPHIC PROCEDURES	99	17	+25
H244	PREPARE AND POSITION PATIENTS FOR SPECIAL RADIOGRAPHIC	}	1	ì
	PROCEDURES	29	77	+23
1412	DISINFECT PORTABLE RADIOCRAPHIC UNITS BEFORE USE IN			
	SURCERY OR ISOLATION ROOMS	58	36	+22
H246	PRODUCE RADIOGRAPHS DURING AIR CONTRAST ENEMAS	59	37	+22
H232	PARTICIPATE IN TAKING SPOT FILMS DURING ARTHROGRAMS USING			
	FLUOROSCOPIC EQUIPMENT	47	25	+22
L425	PRODUCE RADIOGRAPHS IN EMERGENCY ROOMS	65	43	+22
1427	PRODUCE RADIOGRAPHS IN NURSERIES	59	37	+22
H250	PRODUCE RADIOGRAPHS DURING BARIUM SWALLOW EXAMINATIONS	09	39	+21
H248	PRODUCE RADIOGRAPHS DURING ARTHROGRAPHY	97	26	+20
H249	PRODUCE RADIOGRAPHS DURING BARIUM ENEMAS	09	40	+20
G184	PRODUCE RADIOGRAPHS EXAMINATIONS OF THE PEMUR	84	99	+20
G217	PREPARE EQUIPMENT AND MATERIALS FOR STANDARD RADIOGRAPHIC			
	EXAMINATIONS	84	64	+20
G221	PRODUCE RADIOGRAPHS OF ADDITIONAL PROJECTIONS OF THE LOWER			
	EXTREMITIES	02	51	+19
G223	PRODUCE RADIOGRAPHS OF ADDITIONAL PROJECTIONS OF THE CHEST	7.7	28	+19
F149	MAKE ENTRIES ON SF FORMS 135 (RECORDS TRANSMITTAL AND			
		12	42	-30
F137	MAINTAIN CURRENT LISTINGS OF STANDARD RADIOGRAPHIC			
	EXAMINATION PROCEDURES	29	59	-30
A26	WRITE JOB DESCRIPTIONS	7	37	-30

ANALYSIS OF TAFMS GROUPS

Tasks performed by members of various enlistment groups were compared to determine how job content varied as a function of total active federal military service (TAFMS). In the Radiologic career ladder, as TAFMS increased, the relative time spent performing technical tasks decreased and the time spent performing supervisory tasks increased. In all enlistment groups, however, Radiologic personnel spent more time on technical than supervisory tasks. As shown in Table 14, time spent performing nontechnical tasks (Duties A through D) was least in the first enlistment (3 percent) and rose to 37 percent for the fifth and subsequent enlistments.

First Job Assignments (1-24 Months TAFMS)

Personnel in their first job assignments performed technical tasks almost exclusively, spending over 99 percent of their time on these tasks. A core of about 100 tasks were performed by more than 50 percent of the first-termers. The core tasks were mostly standard radiologic examinations. Some film processing, administration, and special procedures were also included in the set of core tasks.

First Enlistment Job Description

Of the 691 members of the sample, 50 percent were first enlistees. As with first-job personnel, first-enlistment jobs are very technical. Only 3 percent of their time is spent on nontechnical tasks. Similar to other TAFMS groups, the tasks most often performed are standard radiographic examinations. Over 40 percent of the group's time is spent in this area. Processing film, bedside surgical radiography, special and administrative procedures also account for significant amounts of their time. As noted earlier (in the SPECIALTY JOBS section) first-termers were found in all job groups except the Senior NCOIC Cluster and Computerized Tomography Technicians Independent Job Type. Figure 2 shows the distribution of first-termers across job groups. Within the first-enlistment group, few differences were found between first-job (1-24 months TAFMS) and second-job (25-48 months TAFMS) personnel. Tables 15, 16, and 17 show major task differences between enlistment groups.

FIGURE 2
DISTRIBUTION OF FIRST-TERMERS ACROSS JOB GROUPS

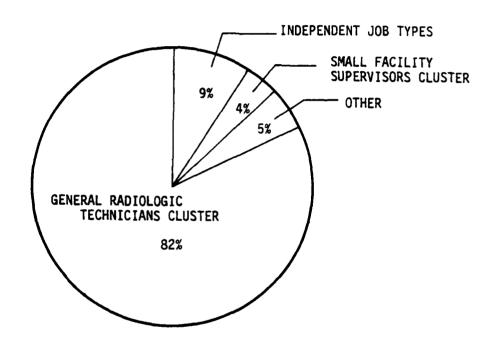


TABLE 14

PERCENT TIME SPENT ON DUTIES BY TAPMS GROUPS

a	DUTIES	1-48	96-87	97-144	145-192	193-240	2414
•						27	-
◀	OKGANIZING AND PLANNING	-	4	7	9	-	-
m	DIRECTING AND IMPLEMENTING	-	٠ ،	. 4	2 -	::	71:
ပ	INSPECTING AND EVALUATING	٠ ،	* (5 (01	77	=
4	PHASE I AND ON-THE-IOR TRAINING	۰ د	7 -	m (x 0 (11	01
P	DATE I TOTAL CONTINUES OF THE CONTINUES	→ ·	4	·n	m	4	4
م 0	DEPOSITION ANATOMICAN ANTER THE CONTROLL OF THE CONTROLL OF THE CONTROLL OF THE CONTROLL OF THE CONTROL OF THE	0	1	-	m	0	7
• (FERFORMING ADMINISTRALIVE FRUCEDURES	12	15		18	16	17
; و	PERFURNING STANDARD RADIOGRAPHIC EXAMINATIONS	41	30	28	19	22	20
# ,	PERFORMING OR PARTICIPATING IN SPECIAL RADIOGRAPHIC PROCEDURES	15	19	7	S	9) (°
٠,	PERFORMING OR PARTICIPATING IN ADVANCED RADIOGRAPHIC PROCEDURES	٣	က	7	5 2		· –
ı ر	PERFORMING IN ULTRASONOGRAPHY PROCEDURES	7	٠	•	4	۰ د	- ٠
⊭ ,	SETTING UP SPECIALIZED RADIOGRAPHIC EQUIPMENT	2	_	1	-		• •
د د 43	PERFORMING OR PARTICIPATING IN BEDSIDE AND SURGICAL RADIOGRAPHY	7	4	7	5	· m	~
	PROCESSING KADIOGRAPHIC FILM	6	6	11	œ	9	7
B (PERFORMING KADIATION THERAPY	-	-	~	1	-	~ ~
۵ (PERFORMING QUALITY CONTROL FUNCTIONS DEPENDING CONTROL CONTROL	7	4	4	ო	٣	m
le .	FERFURING GENERAL SERVICES	4	ς,	4	4	4	2

TABLE 15

TASKS THAT BEST DISTINGUISH FIRST-JOB AND SECOND-JOB PERSONNEL

TASKS		FIRST- JOB	SECOND- JOB	DI PPERENCE.
H249	PRODUCE RADIOGRAPHS DURING BARIUM ENEMAS PRODUCE RADIOGRAPHS DURING BARIUM ENEMAS	61	29	+12
9075	NKLIN	48	37	+11
H231	PARTICIPATE IN TAKING SPOT FILMS DURING AIR CONTRAST			
	ENEMAS USING PLUOROSCOPIC EQUIPMENT	65	54	+11
F160	REVIEW, RETIRE, OR DISPOSE OF RADIOGRAPHIC FILMS AND INDEXES	16	33	-17
P549	PERFORM RADIOLOGY SERVICES ON VETERINARY PATIENTS	13	30	-17
H230	IDENTIFY PATIENT'S REACTION TO CONTRAST MEDIA	48	99	-18
H442	ISOLATE MALFUNCTIONS OF AUTOMATIC FILM PROCESSING MACHINES	19	37	-18
F127	ADVISE PATIENTS REGARDING HAZARDS OF RADIOGRAPHIC			
	EXAMINATIONS DURING PREGNANCY	52	70	-18
MA59	VISUALLY INSPECT PROCESSING EQUIPMENT	41	09	-19
P436	APPLY FIRST AID DURING EMERGENCY CONDITIONS OTHER THAN			
	REACTIONS TO CONTRAST MEDIA	91	35	-19
1313	PRODUCE RADIOGRAPHS DURING LOCALIZATION OF BIOLOGICAL			
	ABNORMALITIES, SUCH AS ABSCESSES, LESIONS, OR MASSES	14	34	-20
G173	PERFORM METASTATIC SERIES EXAMINATIONS	26	94	-20
H262	PRODUCE RADIOGRAPHS DURING PELVIMETRY USING COLCHER-SUSSMAN			
	METHOD	∞	30	-22
6171	Perform Petography	19	41	-22
F132	IDENTIFY FILMS RECEIVED FROM HOSPITALS, CLINICS, CIVILIAN			
	PACILITIES, OR GOVERNMENT AGENCIES	38	61	-23
F130	DISTRIBUTE COMPLETED RADIOGRAPHIC REPORTS TO PHYSICIANS	37	61	-24
P543	PARTICIPATE IN DISASTER EXERCISES	39	. 99	-27
F136	MAIL RADIOGRAPHIC FILMS	21	52	-31

TABLE 16

TASKS THAT BEST DISTINCUISH FIRST- AND SECOND-ENLISTMENT PERSONNEL

		FIRST	SECOND	
TASKS		ENL I STMENT	ENL ISTMENT	DIFFERENCE
H231	PARTICIPATE IN TAKING SPOT FILMS DURING AIR CONTRAST			
	ENEMAS USING FLUOROSCOPIC ROUIPMENT	59	34	+25
H249	PRODUCE RADIOGRAPHS DURING BARIUM ENEMAS	72	67	+23
H250	PRODUCE RADIOGRAPHS DURING BARIUM SWALLOW EXAMINATIONS	72	67	-23
H233	PARTICIPATE IN TAKING SPOT FILMS DURING BARIUM ENEMAS			
	1	58	36	+22
H234	PARTICIPATE IN TAKING SPOT FILMS DURING BARIUM SWALLOW			
	EXAMINATIONS USING PLUOROSCOPIC EQUIPMENT	57	35	+22
H246	PRODUCE RADIOGRAPHS DURING AIR CONTRAST ENEMAS	70	67	+21
1427	PRODUCE RADIOGRAPHS IN NURSERIES	89	47	+21
H232	3			
	PLUOROSCOPIC EQUIPMENT	26	36	+20
L425	PRODUCE RADIOGRAPHS IN INTENSIVE CARE	62	42	+20
H275	PRODUCE RADIOGRAPHS DURING UPPER GASTROINTESTINAL (UCI)			
	SERIES	29	47	+20
H235	PARTICIPATE IN TAKING SPOT FILMS DURING ESOPHOGRAMS USING			
	PLUOROSCOPIC EQUIPMENT	54	34	+20
H240	PARTICIPATE IN TAKING SPOT FILMS DURING UPPER GASTRO-			
	INTESTINAL (UGI) SERIES USING PLUOROSCOPIC EQUIPMENT	55	36	+19
1.417	PERFORM BEDSIDE RADIOGRAPHY ON PATIENTS IN TRACTION	52	33	+19
L428	PRODUCE RADIOGRAPHS IN RECOVERY ROOMS	54	35	+19
H245	PREPARE EQUIPMENT AND SUPPLIES FOR SPECIAL RADIOGRAPHIC			
	PROCEDURES	75	26	+19
F134	INVENTORY SUPPLIES, EQUIPMENT OR TOOLS	20	41	-21
D81	CONDUCT OJT	9	27	-21
F155	PREPARE REQUESTS FOR LOCAL PURCHASE OF ITEMS	9	27	-21
A10	ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES	4	27	-23
F137	MAINTAIN CURRENT LISTINGS OF STANDARD RADIOGRAPHIC			
	EXAMINATION PROCEDURES	16	07	-24

TABLE 17

TASKS THAT BEST DISTINGUISH SECOND-ENLISTMENT AND CAREER PERSONNEL

TASKS		SECOND ENLISTMENT	CAREER	DIFFERENCE
L412	DISINFECT PORTABLE RADIOGRAPHIC UNITS BEFORE USE IN SINCEPPE OF ISOLATION POOMS	C L	c. r.	113
1311	PRODUCE RADIOGRAPHS DURING FOREIGN BODY LOCALIZATION	7	,	/11
 	STUDIES OF OTHER THAN EYES	37	20	+17
H244	PREPARE AND POSITION PATIENTS FOR SPECIAL RADIOGRAPHIC			
	PROCEDURES	59+	77	+15
L425	PRODUCE RADIOGRAPHS IN EMERGENCY ROOMS	26	42	+14
H238	PARTICIPATE IN TAKING SPOT FILMS DURING ORAL CHOLECYS-			•
	TOGRAPHY USING FLUOROSCOPIC EQUIPMENT	47	33	+14
H245	PREPARE EQUIPMENT AND SUPPLIES FOR SPECIAL RADIOGRAPHIC			
	PROCEDURES	56	42	+14
1426	PRODUCE RADIOGRAPHS IN INTENSIVE CARE	42	29	+13
1317	PRODUCE RADIOGRAPHS DURING VENOGRAPHY	31	19	+12
K405	SET UP FLUOROSCOPIC EQUIPMENT WITH TV MONITOR	07	28	+12
L411	DISINFECT PORTABLE RADIOCRAPHIC UNITS AFTER USE IN SUR-			
	GERY OR ISOLATION ROOMS	47	35	+12
G208	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SKULL WITH HEAD			
	UNITS, SUCH AS PRANKLIN	32	20	+12
G218	PRODUCE RADIOCRAPHS OF ADDITIONAL PROJECTIONS OF THE			
	COLUMN, SUCH AS TWINING'S VIEW	53	41	+12
H273	PRODUCE RADIOGRAPHS DURING SMALL BOWEL SERIES	53	41	+12
L432	TRANSPORT PORTABLE RADIOGRAPHIC UNITS BETWEEN DEPARTMENTS	64	37	+12
L424	PRODUCE RADIOGRAPHS DURING OPERATIVE CHOLANGIOGRAPHY	45	34	+11
C74	WRITE APR	77	80	-36
A12	ESTABLISH REQUIREMENTS FOR SPACE, PERSONNEL, EQUIPMENT,	17	53	-36
V	ESTABLISH ORGANIZATIONAL POLICIES, LOCAL OPERATING			
	INSTRUCTIONS (01), OR STANDING OPERATING PROCEDURES (SOP)	28	9 4	-36
V 8	DRAFT BUDGET AND FINANCIAL REQUIREMENTS	14	20	-36

Job Satisfaction for TAFMS Groups

The TAFMS job satisfaction data showed the same problems as that of DAFSC. The data were highest for first-termers and lowest for career personnel (97+ months TAFMS). Overall, the data were good for all groups. The problem is that, although people seem happy with the job, they do not plan to reenlist in numbers that reflect that satisfaction. These trends can be seen in Table 18. Note that almost half the first-termers plan to leave the service.

TABLE 18

COMPARISON OF JOB SATISFACTION INDICATORS BY TAFMS GROUPS (PERCENT MEMBERS PERFORMING)

	1-48 MONTHS	49-96 MONTHS	97+ MONTHS
	TAFMS	TAPMS	TAFMS
EXPRESSED JOB INTEREST:			
DULL SO-SO INTERESTING NOT REPORTED	6	7	13
	13	12	12
	81	78	75
	0	3	0
PERCEIVED UTILIZATION OF TALENTS:			
LITTLE OR NOT AT ALL FAIRLY WELL OR BETTER NOT REPORTED	14	16	22
	86	81	78
	0	3	0
PERCEIVED UTILIZATION OF TRAINING:			
LITTLE OR NOT AT ALL	9	16	23
FAIRLY WELL OR BETTER	91	81	77
NOT REPORTED	0	3	0
REENLISTMENT INTENTIONS:			
NO, OR PROBABLY NO	48	33	10
YES, OR PROBABLY YES	51	64	68
WILL RETIRE	0	1	21
NOT REPORTED	1	2	1

NOTE: Percentages may not equal 100 due to rounding

COMPARISON OF CONUS/OVERSEAS GROUPS

The tasks performed by personnel located at CONUS installations were compared to those performed by individuals located overseas. The comparison was made to determine whether job content varied as a function of location. The tasks performed were almost identical, with only minor differences identified. There were no overseas personnel identified in the computerized tomography, radiation therapy, and radiology NCOIC job groups. In addition, CONUS personnel spent slightly more time on special radiographs, while overseas personnel spent more time on administrative functions. Table 19 shows the tasks that best distinguish the two groups.

Job satisfaction data for overseas personnel are significantly lower than for CONUS personnel (see Table 20); however, reenlistment intentions are about the same for both groups. This may indicate that overseas personnel are unhappy with the jobs overseas, not the career field.

TABLE 19

TASKS THAT BEST DISTINGUISH CONUS AND OVERSEAS PERSONNEL

TASKS		CONUS	OVERSEAS	DIFFERENCE
B48 H250	SUPERVISE APPRENTICE RADIOLOGIC SPECIALISTS (AFSC 90350) PRODUCE RADIOGRAPHS DURING BARIUM SWALLOW EXAMINATIONS DARBETGEBARE IN TAKENG CROST DIESE DURING COAT CHOILE COAT	31 64	8 57	+23 +19
052H	. 19	56	39	+17
067H	INTESTINAL (UGI) SERIES USING FLUOROSCOPIC EQUIPMENT	67	32	+17
H246	PRODUCE RADIOGRAPHS DURING AIR CONTRAST ENEMAS PRODUCE BADIOCRAPHS DURING BADIIM ENEMAS	62	47	+15
H275		9	o r	CI
1000	SERIES DADWICTEDAWN IN WAFTH, COAT DITUG DIDING DADWIN CHAILOU	09	46	+14
BC2B	EXAMINATIONS USING FLUOROSCOPIC EQUIPMENT	48	34	+14
н233	PARTICIPATE IN TAKING SPOT FILMS DURING BARIUM ENEMAS USING FLUOROSCOPIC EQUIPMENT	67	35	+14
H232	PARTICIPATE IN TAKING SPOT FILMS DURING ARTHROGRAMS USING FLUOROSCOPIC EQUIPMENT	20	36	+14
H231	ריו רי	67	36	+13
H235	PARTICIPATE IN TAKING SPOT FILMS DURING ESOPHOGRAMS USING FILIDEROSCOPIC EQUIPMENT	47	76	+
1317	PRODUCE RADIOGRAPHS DURING VENOGRAPHY	39	27	+12
L426	PRODUCE RADIOGRAPHS IN INTENSIVE CARE	57	45	+12
H278	\mathbf{a}	40	28	+12
F139	MAINTAIN TEACHING OR PATHOLOGY FILES	10	31	-21
M459		53	74	-21
M448	MIX CHEMICAL PROCESSING SOLUTIONS	26	78	-22

TABLE 20

COMPARISON OF JOB SATISFACTION INDICATORS BY CONUS/OVERSEAS GROUPS
(PERCENT MEMBERS PERFORMING)

EXPRESSED JOB INTEREST:	CONUS	os
DULL SO-SO INTERESTING NOT REPORTED	6 13 80 1	19 19 62 0
PERCEIVED UTILIZATION OF TALENTS:		
LITTLE OR NOT AT ALL FAIRLY WELL OR BETTER NOT REPORTED	13 86 1	34 66 0
PERCEIVED UTILIZATION OF TRAINING:		
LITTLE OR NOT AT ALL FAIRLY WELL OR BETTER NOT REPORTED	12 87 1	24 76 0
REENLISTMENT INTENTIONS:		
NO, OR PROBABLY NO YES, OR PROBABLY YES WILL RETIRE NOT REPORTED	40 59 1 0	42 58 0 0

NOTE: Percentages may not equal 100 due to rounding

MAJCOM COMPARISON

Differences and similarities among MAJCOMs were examined to identify areas that may impact training. Overall, career ladder personnel perform about the same tasks, regardless of MAJCOM. Only two notable differences were found. AFLC and AFSC first-termers were slightly more likely to work with computerized tomography and radiotherapy than other MAJCOM first-termers. Further, PACAF first-termers performed slightly more ultrasonography than other first-termers. The differences were not significant and, as noted earlier, very few people perform tasks related to these areas.

TASK FACTOR AND TRAINING ANALYSIS

Several factors are valuable in examining training programs for relevancy of material and course coverage. Occupational survey data, such as percent of first-job and first-term airmen performing tasks and percentages of incumbents using equipment, are valuable in this review. Additionally, task difficulty (TD) and training emphasis (TE) data are important. These factors are collected using separate questionnaires which are administered to selected 7-skill level NCOs and which reflect relative TD and recommended TE for all tasks in the job inventory, as was discussed earlier in this report.

These factors were used in evaluating the career ladder training documents: the Special Training Standard (STS) and the Plan of Instruction (POI). This section will examine the task factors and their use in determining the coverage of the career ladder documents.

Training Emphasis

The tasks rated highest in TE by senior Radiologic personnel are very technical in nature (see Table 21). These tasks primarily relate to three duty headings—Performing Standard Radiographic Examinations, Performing or Participating in Special Radiographic Procedures, and Performing or Participating in Bedside and Surgical Radiography. A few film processing and administrative tasks were also rated high.

Task Difficulty

Table 22 lists the tasks that were judged most difficult. These tasks generally deal with ultrasound procedures. Also included were some supervisory tasks. A few radiotherapy tasks were rated high in TD. Except for the supervisory tasks, very few tasks rated high in TD were performed by many people. Table 23 shows the tasks rated lowest in TD. These tasks related to film processing, general services, administration, and standard radiography, and are performed by large numbers of people.

Specialty Training Standard (STS)

The Specialty Training Standard 903X0, dated February 1983, was reviewed for 3-, 5-, and 7-skill level Radiologic personnel. Subject-matter specialists at Sheppard Technical Training Center assisted by matching inventory tasks to STS items. The tasks matched to the STS were supported by the survey data except for the areas covering computerized tomography, radiotherapy, and ultrasonography. Extremely low numbers of people perform tasks relating to these areas; however, as discussed in the career ladder structure of this report, people performing tasks in each of these areas form unique and distinctive independent job types. By regulation (AFR 8-13), these areas should not be included in the STS because they have such low percent performing and training emphasis data. The average to high TD ratings of these tasks, coupled with the fact that distinct job groups were identified, may be justification for their inclusion. These areas should be reviewed by the training community.

Of the 152 tasks not matched to the STS about half should be considered for inclusion in the STS. Table 24 gives examples of tasks not matched to the STS. As the table shows, many of these tasks have significant numbers of people performing. Some tasks also have high TE or TD ratings.

Plan of Instruction (POI 3ABR90330)

Subject-matter specialists at Sheppard Technical Training Center matched inventory tasks to blocks and objectives in the plan of instruction (POI) for the basic Radiologic course. For the most part, POI blocks and objectives were supported by survey data. In some blocks, however, very small percentages of first-job and first-term airmen performed tasks that had been linked to POI items (see Tables 25-27). These tasks primarily related to ultrasound, computerized tomography, and radiotherapy. These areas have less than 10 percent first-job and first-term personnel performing them. In addition, the training emphasis ratings were very low. Further, of these three areas, only tasks related to ultrasound consistently had higher than average TD ratings.

Of the 162 tasks not matched to the POI, only 17, or about 10 percent, need to be considered for inclusion. Of the 17, only 4 had high TE ratings and none had higher than average TD (see Table 28).

TABLE 21

TASKS RATED HIGHEST IN TRAINING EMPHASIS

TASKS	2	TRAINING	FIRST	FIRST	90350	TASK DIFFICULTY
H230	IDENTIFY PATIENT'S REACTION TO CONTRAST MEDIA	7.73	84	28	57	5.59
G227	SHIELD PATIENTS DURING RADIOGRAPHIC EXAMINATIONS	7.58	91	88	84	3.47
6217	PREPARE EQUIPMENT AND MATERIALS FOR STANDARD RADIOGRAPHIC					
	EXAMINATIONS	7.20	06	88	84	4.01
G209	PERFORM RADIOCRAPHIC EXAMINATIONS OF THE SKULL WITHOUT HEAD UNITS	7.18	83	83	82	4.98
G196	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE MASTOIDS	7.11	9/	77	73	6.43
G167	DETERMINE EXPOSURE FACTORS USING STANDARDIZED RADIOGRAPHIC					
	TECHNIQUE CHARTS	7.09	6/	75	72	4.22
G194	PERFORM RADIOCRAPHIC EXAMINATIONS OF THE LUMBAR SPINE	7.09	90	88	84	4.79
G216	PREPARE AND POSITION PATIENTS FOR STANDARD RADIOGRAPHIC					
	EXAMINATIONS	7.09	92	89	84	3.97
8/15 4	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CERVICAL SPINE	7.04	92	68	84	4.95
H275	PRODUCE RADIOGRAPHS DURING UPPER CASTROINTESTINAL (UGI) SERIES	7.02	20	89	27	96.4
1.425	PRODUCE RADIOGRAPHS IN EMERGENCY ROOMS	7.02	77	72	65	5.13
L427	PRODUCE RADIOCRAPHS IN NURSERIES	7.00	69	89	59	5.14
G168	MEASURE PATIENTS USING CALIPERS	86.9	72	20	65	3.01
G195	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE MANDIBLE	6.98	79	81	79	5.26
1.426	PRODUCE RADIOGRAPHS IN INTENSIVE CARE	96.9	6 7	62	53	5.05
H246	PRODUCE RADIOGRAPHS DURING AIR CONTRAST ENEMAS	6.91	75	20	29	5.38
G199	PERFORM RADIOCRAPHIC EXAMINATIONS OF THE PARANASAL SINUSES	08.9	91	88	82	4.75
G212	PERPORM RADIOGRAPHIC EXAMINATIONS OF THE TEMPOROMANDIBULAR JOINTS					
	(THJ)	6.89	20	74	74	5,65
H249	PRODUCE RADIOGRAPHS DURING BARIUM ENEMAS	6.89	79	72	9	4,97
H250	PRODUCE RADIOGRAPHS DURING BARIUM SWALLOW EXAMINATIONS	6.83	9/	72	09	4.95
G191	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE INTERNAL AUDITORY MEATUS					
	(CANALS)	6.87	20	72	69	6.25
L417	PERFORM BEDSIDE RADIOGRAPHY ON PATIENTS IN TRACTION	6.87	53	53	43	5.49
G198	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE OPTIC FORAMINA	6.84	73	72	20	6.05
6183	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FACIAL BONES	6.80	85	85	81	5.25

TABLE 22

TASKS RATED HIGHEST IN TASK DIFFICULTY

1		TASK	TRAINING	FIRST	SECOND	
TASKS		DIFFICULTY	EMPHASIS	ENLIST	ENLIST	CAREER
1389	PERFORM ULTRASOUND GUIDED PETAL TRANSPUSIONS	7.40	1.20	•	-	1.5
1336	PERFORM CHEST ULTRASONOGRAPHY	7.16	1.76	,	ო	4.3
88	DRAFT BUDGET AND FINANCIAL REQUIREMENTS	7.11	1.13	-	14	50.0
1010	WRITE CAREER DEVELOPMENT COURSE (CDC) MATERIALS	7.03	.02	0	-	1.5
E1111	DEVELOP PHASE II COURSE LESSON PLANS	6.95	. 24	0	4	4.3
3344	PERFORM ECHOCARDIOGRAPHY FOR VALVE ABNORMALITIES	6.95	1.36		0	0.0
A27	Write Justifications for Equipment	6.91	1.87	ന	70	9.09
1369	PERFORM OPHTHALMIC ULTRASONOGRAPHY FOR RETINAL DETACHMENT	6.87	1.33	0	0	1.5
1330	PERFORM ADREMAL ULTRASONOGRAPHY	98.9	1.73	7	٧	5.3
J373	PERFORM PEDIATRIC ECHOCARDIOGRAPHY	6.85	1.38	-	0	1.5
7338	PERFORM CRANIAL SHUNT ULTRASONOGRAPHY	6.83	1.24	_	ᠻ	1.1
1371	PERFORM PANCREATIC ULTRASONOGRAPHY	6.79	1.98	5	01	10.1
C76	WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS	6.78	.33	-	-	22.3
B 54	WRITE REPLIES TO CONGRESSIONAL OR ADMINISTRATIVE INQUIRIES	6.75	.13	0	ന	14.4
3337	PERFORM COLOR ULTRASONOGRAPHY FOR TISSUE DIFFERENTIATION	6.70	.87	0	_	•
J343	PERFORM ECHOCARDIOGRAPHY FOR PERICARDIAL EFFUSION	6.67	1.29	0	0	٥.
J362	PERFORM OBSTETRIC ULTRASONOGRAPHY FOR PETAL ANOMALIES	99.9	2.36	9	13	11.6
1370	PERFORM OPHTHALMIC ULTRASONOGRAPHY FOR TUMORS	99.9	1.53	_	0	1.1
A28	Write Unit emercency or disaster plans	6.63	.36	0	∞	18.6
J329	PERFORM ABSCESS DRAINAGE ULTRASONOGRAPHY	6.63	1.40	7	m	4.3
1318	PRODUCE RADIOGRAPHS DURING VENTRICULOGRAPHY	6.62	2.67	-		•
1335		9.60	1.36	7	e	2.7
1342	ECHOCARDIOGRAPHY FOR CH	9.60	1.29	-	0	1.5
J315	PRODUCE RADIOGRAPHS DURING PNEUMOENCEPHALOGRAPHY	6.59	2.58		0	1.5
1385	PERPORM THORACENTESIS ULTRASONOGRAPHY	6.59	1.51	-	7	5.6
J354	PERFORM MASS BIOPSY ULTRASONOGRAPHY	6.59	1.53	7	ന	4.7
D102	WRITE TEST QUESTIONS OTHER THAN FOR PHASE II COURSE TRAINING	6.59	. 20	-	4	6.9
N504	PLOT RADIOACTIVE DECAY TO DETERMINE SOURCE ACTIVITY	6.58	69.	-	0	1.1
J334	PERFORM BREAST ULTRASONOGRAPHY	6.57	1.49	-	m	2.7
1308	PRODUCE RADIOGRAPHS DURING CEREBRAL ANGIOGRAPHY	6.55	3.29	٠	~	3.2

TABLE 23

TASKS RATED LOWEST IN TASK DIPPICULTY

TASKS		TASK	TRAINING	FIRST	SECOND	CAREER
G179	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CHEST	3.16	6.71	89	77	73
F 126	ADMINISTER PREGNANCY QUESTIONNAIRES	3.15	5.36	47	57	59
F150	MATCH RADIOGRAPHIC FILMS TO SF FORMS 519A (RADIOGRAPHIC REPORT)	3.14	5.62	73	69	75
1446	LOAD OR UNLOAD FILM HANGERS	3.12	3.33	9	1	Ŋ
M44 0	CLEAN MANUAL FILM PROCESSING TANKS	3.10	3.91	7	12	10
P131	FILE RADIOGRAPHIC FILMS OR REPORTS	3.09	5.91	80	9/	78
P151	PICK UP, DELIVER, OR SIGN OUT RADIOGRAPHIC FILMS TO PHYSICIANS	3.09	4.93	74	73	11
G187	PERPORM RADIOGRAPHIC EXAMINATIONS OF THE POOT	3.03	6,49	88	74	
G168	MEASURE PATIENTS USING CALIPERS	3.01	6.98	20	27	62
F130	DISTRIBUTE COMPLETED RADIOGRAPHIC REPORTS TO PHYSICIANS	3.01	5.00	20	09	69
6188	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HAND	3.01	94.9	88	75	72
9 F128	ASSIGN IDENTIFICATION TO RADIOGRAPHIC RECORDS	3.00	5.67	67	28	6 7
P164	UPDATE PATIENT MOMINAL INDEX CARD FILES	2.98	5.80	89	20	75
1432	TRANSPORT PORTABLE RADIOGRAPHIC UNITS BETWEEN DEPARTMENTS	2.97	5.62	99	64	37
F163	UPDATE FILM POLDERS	2.96	5.47	77	9/	79
F136		2.93	4.42	8 8	53	29
G186	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE POREARM	2.89	6.40	88	9/	72
14451	PERFORM AUTOMATIC FILM PROCESSOR TURN-ON PROCEDURES	2.87	5.22	65	73	69
M443	LABEL CASSETTES FOR SCREEN SPEED	2.85	4.36	10	25	32
P544	Perform housekeeping services	2.83	2.73	34	39	67
M450	PERFORM AUTOMATIC FILM PROCESSOR TURN-OFF PROCEDURES	2.79	5.33	65	73	69
F 152		2.77	5.29	11	9/	80
M454	PROCESS RADIOGRAPHIC FILM AUTOMATICALLY OTHER THAN DURING SURGERY	2.74	5.69	71	99	99
F447		2.74	5.47	9/	72	64
G185	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FINGERS	2.73	6.36	6	75	72
7444	LOAD OR UNLOAD CARDBOARD FILM HOLDERS	2.67	3.93	74	22	22
A 2	ASSIGN SPONSORS FOR NEWLY ASSIGNED PERSONNEL	2.63	1.91	-	91	84
1449	NIMBER CASSETTES OR SCREENS FOR IDENTIFICATION	2.61	4.82	21	35	45
M445		2.54	5.76	88	78	7.
1441	IDENTIFY RADIOGRAPHIC FILMS WITH IDENTIFIER		5.91	7.7	92	67
P 559	WEIGH PATIENTS	2.26	.71	m	~	Ś

TABLE 24

EXAMPLES OF TASKS NOT MATCHED TO THE STS

TASKS		TRAINING	FIRST	PIRST	90330	90350	90370	TASK DIPPICULTY
						,	į	
200	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SKULL WITHOUT HEAD UNITS	7.18	8 3	83	80	83	9	. 48 86 . 4
		16.9	79	80	75		74	3.09
	File Advicements Calaboa Des Badicaphic Halls	5.91	2	21	16	3	20	5.05
		5.84	25	28	30	9	ž	5.41
4130	TEATTHE PARTY OF THE CHARGE TEATH	5.09	9	12	12	7	23	4.99
	MANAGER MANAGER STATEMENT OF THE STATEME	4.42	21	38	32	49	9	2.93
	MAIL MADINGMARTIC FILMS PROBLEM BADINGMAPHS BIRING PORRIGH BODY LOCALIZATION STUDIES OF CTHER THAN	:	;	}	}			
		4.36	58	34	28	35	21	4.92
71.30	WITHIN INSPIRE PACILITIES FOR PROPER STORAGE OF RADIOGRAPHIC FILM	4.33	90	13	15	61	37	3.59
13,4	THE DATIFIED INDOMNATION INTO AIRCRAFTED DATA SYSTEMS	6 .09	18	18	21	11	81	4.71
		4.02	*	91	=	53	29	4.09
7712	MARE BUTTER ON AP PORNES SA4 (X-RAY WORK RECORD	3.98	12	18	18	27	33	3.53
76.36		3.64	47	7	7	œ	21	5.49
	TRANSPORT PATIENTS OF THERES OR THERE CHAIRS	3.62	52	24	84	54	38	3.33
	MATURATE CONTINUES ENGINEER TRATE	3.60	22	20	21	8	~~	5.26
1313	PROPRIET BARICCEAPER BURING LOCALIZATION OF BIOLOGICAL ABNORMALITIES, SUCH							
		3.60	71	25	15	25	13	5.44
1.20	DETERMINE PLICIALITY OF INDIVIDUALS FOR MEDICAL CARE	3.58	01	17	13	23	38	3.38
1313		3.58	4	9	S	S	-	97.9
1	•	3.53	6	7	9	91	47	5.39
=	PRODUCE STEEDSCOPIC RADIOCRAPHS	3.49	-	S	7	•	9	5.64
0538	PERSONAL SPIRE TOP TESTS	3.49	4	4	S	∢	o	4.65
2 2 2	AASTCH PATIBUTE TO PADIOCRAPHIC EXPOSURE ROOMS	3.47	47	67	44	8	2	4.05
3	SUPERVISE APPRENTICE RADIOLOGIC SPECIALISTS (APSC 90330)	3.40	14	19	13	5 0	37	4.93
7.5	TAY THE	3,38	0	'n	7	22	83	6.05
9	PREFARE INSTRUMENTS FOR STERLILIZATION	3.38	17	21	19	20	2	3.92
H228	ADMINISTER INTRAVENCES (IV) INJECTIONS	3.18	=	15	81	15	91	5.47
2	SET HE CARDIAC MONITORING ROLLIPMENT	3.07	'n	9	'n	9	4	5.82
7	AD HIST RIPETROLYSIS-TYPE SILVER RECOVERY UNITS	2.99	~	e	'n	^	7 6	5.10
413		2.96	-	9	S	91	65	4.83

Average TE - 3.06

41gh TE - 5.26

TABLE 25

EXAMPLES OF ULTRASOUND TASKS MATCHED TO THE POI

A Section of

TASKS		TRAINING	FIRST	FIRST ENLIST	TASK
3358	PERFORM OBSTETRIC ULTRASONOGRAPHY FOR AMNIOCENTESIS	1.89	7	4	5.93
1386	PERPORM THYROID ULTRASONOGRAPHY	1.89	m	4	6.34
1331	PERFORM AORTIC ULTRASONOGRAPHY	1.84	m	4	6.39
1382	PERFORM RETROPERITONEAL ULTRASONOGRAPHY	1.80	-	7	6.48
1336	Perform chest ultrasonography	1.76	_	-	7.16
1346	PERFORM FEMORAL ARTERY ULTRASONOGRAPHY	1.76		-	6.23
1347	PERFORM PETAL CARDIAC STUDY ULTRASONOGRAPHY	1.76	ო	4	6.23
1367	_	1.76	-	~	80.9
1330	ADREMAL ULTRASONOGRAPHY	1.73	7	7	6.86
3378	Perporm renal artery ultrasonography	1.73	7	ന	6.53
1379	PERFORM RENAL BIOPSY ULTRASONOGRAPHY	1.73	-	-	6.30
J355	PERFORM NECK ULTRASONOGRAPHY	1.71	٣	ന	6.23
, J352	INFERIOR VENACAVA ULTRASO	1.69	-	က	6.33
3376		1.69		7	6.02
1340	DIAPHRACH ULTRASONOGRAPHY	1.67	-	-	60.9
1377	PORTABLE ULTRASONOGRAPHY	1.67	-	e	5.94
3372	_	1.64	7	~	6.50
J351		1.58	-	7	6.13
3332	BAKER CYST ULTRASONOGRAPH	1.53	7	က	90.9
1354	MASS BIOPSY ULTRASONOGRAPH	1.53	7	7	6.59
3370	OPTHALMIC ULTRASONOGRAPHY	1.53	-	-	99.9
1385	•	1.51	-	-	6.59
1334	BREAST ULTRASONOGRAPHY	1.49	-	-	6.57
K388	-	1.47	-	-	6.29
J375		1.44	-	က	6.16
1341	DOPPLER ULTRASONOGRAPHY	1.42	0	-	6.31
1329	ABSCESS DRAINAGE ULTRASON	1.40	-	7	•
3357	PERFORM NEPHROSTOMY ULTRASONOGRAPHY	1.88	7	7	6.29
1368		1.38	-	0	6.20
1373	PEDIATRIC ECHOCARDIOGRAPHY	1.38	-	-	6.85
1390	PERFORM VIDEO MOTION ULTRASONOGRAPHY STUDIES	1.38	-	1	5.88

AVERAGE TE = 3.06

HIGH TE = 5.26

TABLE 26

EXAMPLES OF COMPUTERIZED TOMOGRAPHY TASKS MATCHED TO THE POI

TASKS		TRAINING	FIRST	FIRST	TASK
1286	1286 ADJUST COMPUTERIZED TOMOGRAPHIC TOTAL BODY (CT/T) SCANNER GANTRY FOR PATIENT	2.20	4	•	5.88
1004	POSITIONING DEPROP CAMPITED ZED TOMOGRAPHIC TOTAL BODY (CT/T) SCANNER WARM UP PROCEDURES	1.62	-	en «	4.91
1296	PERFORM ENHANCED SCANS OF DESIGNA	1.56		ന ന	5.36
1294		1.51	ı m	4	5.56
1301		1.04		7	6.21
1298		1.44		က	5.09
1320		14.2	-	7	6.10
1299		1.24	-	7	5.92
1295		1.16	0	7	5.41
1297	PERPORM PRIORITY QUEUING	1			

AVERAGE TE = 3.06

HIGH TE = 5.26

TABLE 27

EXAMPLES OF RADIOTHERAPY TASKS MATCHED TO THE POI

TASKS		TRAINING	FIRST	FIRST	TASK
N477		1.29	က	'n	4.24
N514	SHIELD PATIENTS DURING RADIATION THERAPY TREATMENTS THENTIPY AND REPORT TO PHYSICIAN CONDITION OF PATIENTS DIRING RADIATION	1.02	7	7	76.7
		1.00	-	-	4.32
N463	CHANGE DRESSINGS	.93	-	7	3.71
N495	PERFORM RADIATION PROTECTION PROCEDURES FOR PATIENT AND TECHNOLOGIST DURING				
	RADIATION THERAPY	.93	0	-	5.43
N467	ESTABLISH RAPPORT WITH PATIENTS UNDERGOING RADIOTHERAPY	.91	ო	7	5.07
N462	ATTACH CONES AND FILTERS TO X-RAY EQUIPMENT FOR THERAPY	. 89	ო	7	4.52
N499	PERFORM SAPETY CHECKS ON COBALT THERAPY EQUIPMENT	.89	-	-	5.21
	PERFORM STANDARDIZATION PROCEDURES ON RADIATION THERAPY	.89		-	5.98
O N505	POSITION PATIENTS FOR RADIOTHERAPY TREATMENTS	68.	0		4.43
N471	INSTRUCT PATIENTS PRIOR TO ADMINISTRATION OF RADIATION THERAPY	.87	0	-	4.43
M473	INVENTORY RADIOACTIVE SOURCES AFTER RADIATION THERAPY TREATMENTS	.82	-	-	4.65
N492	PERFORM OPERATIONAL CHECKS ON RADIOACTIVE CONTAMINATION DETECTION DEVICES	.82	-	_	5.66
N497	PERFORM RADIOACTIVE DECONTAMINATION PROCEDURES	.82	7	-	5.41
N506	POST RADIATION LEVELS OF RADIOACTIVE MATERIALS UPON RECEIPT	.82	-	-	5.08
M468	FABRICATE SHIELDING MASKS	.80	7	7	6.53
N476	MAINTAIN RECORDS OF PATIENT'S BLOOD COUNT	.80		_	4.19
N489	PERPORM FUNCTIONAL CHECKS ON RADIATION THERAPY EQUIPMENT	.80	~		5.55
N493	PERFORM OPERATIONAL CHECKS ON RADIOACTIVE SURVEY EQUIPMENT	.80	0	0	5.69
N512	SCHEDULE PATIENTS FOR RADIATION THERAPY TREATMENTS	.80	0	-	4.32
N461	APPLY ROLUS TO TREATMENT AREAS	.78	-	-	5.86
N500	PERFORM SCANS UTILIZING SPECIALIZED ELECTRONIC DETECTORS	.78	-		6.35
NSII	PRODUCE RADIOGRAPHS OF BRACHYTHERAPY DEVICES IMPLANTED IN PATIENTS	.78	-	-	4.76
N472	INVENTORY BRACYTHERAPY EQUIPMENT	92.	0	0	4.16
N485		.73	1	7	4.88
N491	PERFORM MEGA VOLTAGE (COBALT 60) THERAPY	.73	_	_	6.15
N460	ALIGN OR ADJUST RADIATION THERAPY EQUIPMENT FOR PATIENT SET-UPS	.71	7	7	5.50

TABLE 28

EXAMPLES OF TASKS NOT REPERENCED TO THE POI

TASKS		TRAINING	FIRST	FIRST	TASK
F131 F141 P536	FILE RADIOGRAPHIC FILMS OR REPORTS MAINTAIN TECHNIQUE CHARTS FOR RADIOGRAPHIC UNITS APPLY FIRST AID DURING EMERGENCY CONDITIONS OTHER THAN REACTIONS TO CONTRAST	5.91 5.91	74 16	80 27	3.09 5.02
	MEDIA	5.87	91	27	5.02
L432	TRANSPORT PORTABLE RADIOGRAPHIC UNITS BETWEEN DEPARTMENTS	5.62	29	9	2.97
F130	DISTRIBUTE COMPLETED RADIOGRAPHIC REPORTS TO PHYSICIANS	5.00	37	20	3.01
1431	SCHEDULE BEDSIDE RADIOGRAPHY WITH WARD PERSONNEL	4.96	30	31	3.78
P543	PARTICIPATE IN DISASTER EXERCISES	4.53	39	54	3.99
F136	MAIL RADIOGRAPHIC FILMS	4.42	21	38	2.93
1311	PRODUCE RADIOGRAPHS DURING FOREIGN BODY LOCALIZATION STUDIES OF OTHER THAN				
	ETES	4.36	28	34	4.92
0534	VISUALLY INSPECT PACILITIES FOR PROPER STORAGE OF RADIOGRAPHIC FILM	4.33	æ	13	3.59
P541	ESCORT PATIENTS TO OR FROM LITTERS OR WHERL CHAIRS	4.20	72	73	3.55
F135	KEY PATIENT INFORMATION INTO AUTOMATED DATA SYSTEMS	4.09	18	18	4.71
F137	MAINTAIN CURRENT LISTINGS OF STANDARD RADIOGRAPHIC EXAMINATION PROCEDURES	4.02	14	16	4.09
F144		3.98	12	18	3.53
0523	PERFORM COLLIMATOR ALIGNMENT TESTS	3.82	7	11	4.75
0526	PERFORM REJECT ANALYSIS	3.64	2	7	5.49
H277	PRODUCE RADIOGRAPHS DURING VASOGRAMS	3.62	5	က	5.34
P558	TRANSPORT PATIENTS ON LITTERS OR WHEEL CHAIRS	3.62	52	20	3.33
1292	MAINTAIN SPECIAL PROCEDURE EQUIPMENT TRAYS	3.60	22	70	5.26
1313	PRODUCE RADIOGRAPHS DURING LOCALIZATION OF BIOLOGICAL ABNORMALITIES, SUCH AS				
	ABSCESSES, LESIONS, OR MASSES	3.60	14	25	5.44
F129	DETERMINE ELIGIBILITY OF INDIVIDUALS FOR MEDICAL CARE	3.58	10	17	3.38
1312	PRODUCE RADIOGRAPHS DURING FOREIGN BODY LOCALIZATION STUDIES OF EYES	3.58	4	9	6.48
D81	CONDUCT OJT	3.53	က	7	5.39
1319	PRODUCE STEREOSCOPIC RADIOGRAPHS	3.49	-	5	5.64
0528	PERFORM SPIN TOP TESTS	3.49	4	4	4.65
P537	ASSIGN PATIENTS TO RADIOGRAPHIC EXPOSURE ROOMS	3.47	47	49	4.05

AVERAGE TE = 3.06

HIGH TE = 5.26

COMPARISON TO PREVIOUS SURVEY

The last survey of the Radiologic specialty was administered in 1978, with the report being published that same year. Comparison of this survey with the results from the 1978 survey shows the specialty has become less homogeneous. In the 1978 study, 82 percent of the people were general radiographers. In the present study, only 57 percent fell into this category. One of the reasons for the change is that new equipment has been added to the field. The people working on the new equipment are very specialized and rarely perform other duties. Another reason is that the previous survey compared the Radiologic, Medical Laboratory, and Nuclear Medicine career ladders. This study looked for differences only within the Radiologic career ladder. Thus, different levels of analyses were required.

The job satisfaction data for the two surveys are about the same (see Table 29).

TABLE 29

COMPARISON OF JOB SATISFACTION INDICATORS BY SURVEY
(PERCENT MEMBERS PERFORMING)

EXPRESSED JOB INTEREST:	1978	PRESENT
DULL	7	8
SO-SO	15	13
INTERESTING	76	78
NOT REPORTED	2	1
PERCEIVED UTILIZATION OF TALENTS:		
LITTLE OR NOT AT ALL	16	17
FAIRLY WELL OR BETTER	82	83
NOT REPORTED	2	0
PERCEIVED UTILIZATION OF TRAINING:		
LITTLE OR NOT AT ALL	14	14
FAIRLY WELL OR BETTER	85	85
NOT REPORTED	1	1
REENLISTMENT INTENTIONS:		
NO, OR PROBABLY NO	34	35
YES, OR PROBABLY YES	66	59
WILL RETIRE	0	6
NOT REPORTED	0	0

NOTE: Percentages may not equal 100 due to rounding

ANALYSIS OF WRITE-IN COMMENTS

Write-in comments volunteered by survey respondents can sometimes give insight into problems that may exist in the field. Comments received indicate that two problems may exist. First, many people feel staffing levels are too low. Second, people at small facilities feel disadvantaged because they don't get to use any of the new equipment or perform any complex procedures. Examples of write-in comments that illustrate these feelings are quoted below:

"Although I fill the NCO position, I also must fulfill responsibilities as a working technologist and perform my administrative supervisor's duties after normal duty hours and cannot perform direct supervision on any of my subordinates as a result of the unrealistic staffing levels."

". . . I am expected to be an administrative, supervisory NCO, and yet I am 50 percent manned."

"The only complaint I have is the management of manpower."

"I have never been assigned to a hospital, with the exception of Phase II; therefore, my knowledge is extremely limited."

"We do no, repeat no, specials. It is very boring after three years of chests, heads, and L-spines."

Comments like these indicate there may be a problem keeping people motivated at some bases.

ISSUES AND SURVEY CONSIDERATIONS

New Equipment: As discussed earlier in the TRAINING ANALYSIS and Career Ladder Structure sections of this report, very few people (less than 10 percent) are working with radiotherapy, ultrasound and computerized tomography equipment. These people clearly break out from the remainder of the career field. For a more detailed description of the job groups relating to these areas, refer to the Career Ladder Structure section.

Automated Data Systems: Approximately 18 percent of the entire career field now uses automated data systems. By skill level, the breakdown is as follows:

- 21 percent of the 3-skill level personnel
- 17 percent of the 5-skill level personnel
- 18 percent of the 7-skill level personnel

In terms of TAFMS, the breakdown is as follows:

- 18 percent of first-term enlisted personnel
- 17 percent of second-term enlisted personnel
- 18 percent of career personnel

Quality Control (QC) Test and American Registry of Radiologist Technologists (ARRT): More than half (58 percent) of the people said they have never taken the QC test. Only 284 people have taken the test: 77 percent passed on the first try, 14 percent on the second, 2 percent on the third. The remainder have taken the test five or more times and have not passed.

Only 30 percent of the Radiologic personnel reported that they were members of the ARRT.

IMPLICATIONS

The primary purpose of the survey was to see how many people worked in the ultrasound, computerized tomography, and radiotherapy areas. As discussed earlier, very few people work in these areas. Therefore, computerized tomographers, ultrasound technicians, radiotherapists, and, possibly, angiographers, may need some type of special identification to prevent their reassignment to facilities without such equipment. The jobs performed by these people are separate and distinct from the rest of the career ladder. It takes a year or more of OJT for someone to become proficient in these areas. It does not seem cost-effective to transfer these people shortly after they become proficient, unless that reassignment is to a similar facility.

With the small number of people in these job groups, training in the areas of ultrasound computerized tomography and radiography in the ABR Course does not seem justified. It seems more cost-effective to provide some form of orientation course just to people who are selected for such assignments.

AFR 39-1 was examined and found slightly deficient at the specialist level. A revision of the 5-skill level description is needed and should include special imaging procedures and radiation treatment of diseases.

Most people in the Radiologic career ladder seem satisfied with their jobs but reenlistment intentions do not reflect this. Corrective actions should be taken to remedy this problem. Each person who reenlists will save the Air Force thousands of dollars in training costs, and will help maintain experience levels.

APPENDIX A REPRESENTATIVE TASKS OF CAREER LADDER JOB GROUPS

GROUP ID NUMBER AND TITLE: GENERAL RADIOLOGIC TECHNICIANS CLUSTER (GRP107)

NUMBER IN GROUP: 395

AVERAGE GRADE: E-4

AVERAGE NUMBER OF TASKS PERFORMED: 127

JOB DIFFICULTY INDEX: 12.8

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TASKS		PERCENT MEMBERS PERFORMING
G185	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FINGERS	100
G188	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HAND	99
G186	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOREARM	99
G193	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LOWER LEG	99
G192	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE KNEE	99
G214	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE TOES	99
G182	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ELBOW	99
G207	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ELBOW PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SHOULDER PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CHEST	99
G179		99
G216	PREPARE AND POSITION PATIENTS FOR STANDARD RADIOGRAPHIC	
	EXAMINATIONS	99
G176	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ANKLE	99
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOOT	99
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE WRIST	99
G178	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CERVICAL SPINE	
G201	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PELVIS	99
G202	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE RIBS	99
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FEMUR	99
_	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HIPS	98
G213	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE THORACIC SPINE	
G194	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LUMBAR SPINE	
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HUMERUS	98
G177	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CALCANEOUS (OS	
	CALCIS)	98
G200	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PATELLA	98
G180	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CLAVICLE	98
G217	PREPARE EQUIPMENT AND MATERIALS FOR STANDARD RADIOGRAPHIC	
	EXAMINATIONS	97
G199	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PARANASAL SINUSES	
G174	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ABDOMEN	97
G203	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SACROILIAC (S-I)	
	JOINTS	97
G227		96
G175	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ACROMIO CLAVICULAR	04
0101	(A-C JOINTS)	96
G181	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE COCCYX	96
M445	LOAD OR UNLOAD CASSETTES	96

GROUP ID NUMBER AND TITLE: CLINIC RADIOTECHNOLOGISTS (GRP136)

NUMBER IN GROUP: 54 PERCENT OF SAMPLE: 8

AVERAGE GRADE: E-5

AVERAGE TICF: 76 TAFMS: 84

AVERAGE NUMBER OF TASKS PERFORMED: 112

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TASKS		PERCENT MEMBERS PERFORMING
G216	PREPARE AND POSITION PATIENTS FOR STANDARD RADIOGRAPHIC	
	EXAMINATIONS	100
-	LOAD OR UNLOAD CASSETTES	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HAND	100
	PREPARE FILM FILE ENVELOPES	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOOT	100
_	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE WRIST	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE KNEE	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE TOES	100
	MAINTAIN FILM BINS	100
G193	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LOWER LEG	100
G207	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SHOULDER	100
		100
G200	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PATELLA PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HIPS	100
G189	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HIPS	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE THORACIC SPINE	
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE RIBS	100
G190	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HUMERUS	100
G197	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE NASAL SERIES SHIELD PATIENTS DURING RADIOGRAPHIC EXAMINATIONS	100
		98
_	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FINGERS	98
F150	MATCH RADIOGRAPHIC FILMS TO SF FORMS 519A (RADIOGRAPHIC	
	REPORT)	98
G194	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LUMBAR SPINE	98
G186	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LUMBAR SPINE PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOREARM	98
G182	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ELBOW	98
	CLEAN AUTOMATIC FILM PROCESSOR CROSSOVERS	98
G174	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ABDOMEN	98
M438	CLEAN DARKROOM FACILITIES	98
G180	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CLAVICLE	98
G201	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PELVIS	98
G179	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CHEST	96
G176	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ANKLE	96
	FILE RADIOGRAPHIC FILMS OR REPORTS	96
F163	UPDATE FILM FOLDERS	96
G178	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CERVICAL SPINE	96

The second secon

GROUP ID NUMBER AND TITLE: HOSPITAL RADIOTECHNOLOGISTS (GRP146) NUMBER IN GROUP: 298

PERCENT OF SAMPLE: 43
AVERAGE TICF: 39 TAPMS: 41 AVERAGE GRADE: E-4

AVERAGE NUMBER OF TASKS PERFORMED: 136 JOB DIFFICULTY INDEX: 13.7

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G185 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FINGERS 100 G186 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE TOES 100 G187 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FORFARM 100 G179 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LOWER LEG 100 G179 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LOWER LEG 100 G179 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CHEST 99 G216 PREPARE AND POSITION PATIENTS FOR STANDARD RADIOGRAPHIC EXAMINATIONS 99 G188 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HAND 99 G176 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HAND 99 G176 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ANKLE 99 G178 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PARAMSAL SINUSES 99 G178 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CERVICAL SPINE 99 G182 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ELBOW 99 G213 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ELBOW 99 G214 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE WRIST 99 G192 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE WRIST 99 G207 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE WRIST 99 G207 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE BRULDER 99 G208 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE RIBS 99 G209 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE RIBS 99 G200 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FEMUR 99 G201 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FEMUR 99 G202 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE BRULDER 99 G203 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LOWEAR SPINE 99 G204 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LOWEAR SPINE 99 G205 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LOWEAR SPINE 99 G206 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LOWEAR SPINE 99 G207 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LOWEAR SPINE 99 G208 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LOWEAR SPINE 99 G209 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LOWEAR SPINE 99 G200 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HIPS 98 G207 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LOWEAR SPINE 98 G208 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HUMERUS 98 G209 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HUMERUS 98 G200 PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HUMERUS 99 G2			PERCENT MEMBERS
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G216 FREPARE AND POSITION PATIENTS FOR STANDARD RADIOGRAPHIC EXAMINATIONS 99	G186	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOREARM	100
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EXAMINATIONS 99		EXAMINATIONS	99
EXAMINATIONS 99	G217	PREPARE EQUIPMENT AND MATERIALS FOR STANDARD RADIOGRAPHIC	
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GROUP ID NUMBER AND TITLE: MEDICAL CENTER RADIOTECHNOLOGISTS (GRP121)

NUMBER IN GROUP: 41 PERCENT OF SAMPLE: 6

AVERAGE GRADE: E-3 AVERAGE TICF: 40 TAFMS: 43

AVERAGE NUMBER OF TASKS PERFORMED: 21 JOB DIFFICULTY INDEX: 8.7

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TASKS		PERCENT MEMBERS PERFORMING
G188	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HAND PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOOT PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FINGERS PERFORM RADIOGRAPHIC EXAMINATIONS OF THE KNEE PERFORM RADIOGRAPHIC EXAMINATIONS OF THE WRIST PERFORM RADIOGRAPHIC EXAMINATIONS OF THE TOES PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOREARM PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HIPS PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ELBOW PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FEMUR	100
G187	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOOT	100
G185	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FINGERS	100
G192	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE KNEE	100
G215	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE WRIST	100
G214	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE TOES	100
G186	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOREARM	100
G189	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HIPS	100
G182	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ELBOW	100
G184	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FEMUR	100
G177	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FEMUR PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CALCANEOUS (OS	
	CALCIS)	100
G180	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CLAVICLE	100
GI/A	PERFORM KADIOGRAPHIC EXAMINATIONS OF THE CHEST	98
G216		
	EXAMINATION	98
G176	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ANKLE	98
G178	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ANKLE PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CERVICAL SPINE PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SHOULDER PERFORM PADIOCRAPHIC EXAMINATIONS OF THE LOWER LEG	98
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GIJJ	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LOWER LEG	70
G201	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PELVIS PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HUMERUS	98
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HUMERUS PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ACROMIC CLAVICULAR	98
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	(A-C) JOINTS	98
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LUMBAR SPINE	95
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G213	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE THORACIC SPINE PERFORM RADIOGRAPHIC EXAMINATIONS OF THE RIBS	95
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	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE COCCYX	93
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ABDOMEN	90
G205	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SCAPULA	90
G199	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PARANASAL SINUSES	88

GROUP ID NUMBER AND TITLE: SMALL FACILITY SUPERVISORS CLUSTER (GRP097)

NUMBER IN GROUP: 113

PERCENT OF SAMPLE: 16
AVERAGE TICF: 109 TAPMS: 132 AVERAGE GRADE: E-5

AVERAGE NUMBER OF TASKS PERFORMED: 194 JOB DIFFICULTY INDEX: 7.1

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TASKS	<u> </u>	PERCENT MEMBERS PERFORMING
G179	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CHEST SHIELD PATIENTS DURING RADIOGRAPHIC EXAMINATIONS	100
G227	SHIELD PATIENTS DURING RADIOGRAPHIC EXAMINATIONS	100
G217	PREPARE EQUIPMENT AND MATERIALS FOR STANDARD RADIOGRAPHIC	
	EXAMINATIONS	100
G185	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FINGERS	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOREARM	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE KNEE	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LUMBAR SPINE	100
G178	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CERVICAL SPINE	
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ABDOMEN	100
G207	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SHOULDER	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ELBOW	100
G189	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HIPS	100
G202	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HIPS PERFORM RADIOGRAPHIC EXAMINATIONS OF THE RIBS PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PELVIS PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PATELLA PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FEMILE	100
G201	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PELVIS	100
G200	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PATELLA	100
		100
G177	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CALCANEOUS (OS	
	CALCIS)	100
G199	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PARANASAL SINUSES	99
G197	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PARANASAL SINUSES PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOOT PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HAND PREPARE FILM FILE ENVELOPES	99
G188	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HAND	99
F152	PREPARE FILM FILE ENVELOPES	99
G176	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ANKLE FILE RADIOGRAPHIC FILMS OR REPORTS	99
¥131	FILE RADIOGRAPHIC FILMS OR REPORTS	99
G214	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE TOES	99
G193	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LOWER LEG	99
GISO	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CLAVICLE	99
G1/5	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE TOES PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LOWER LEG PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CLAVICLE PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ACROMIO CLAVICILAR (A-C) JOINTS	00
	CLAVICULAR (A-C) JUINIS	99
G216	PREPARE AND POSITION PATIENTS FOR STANDARD RADIOGRAPHIC	00
B1/0	EXAMINATIONS HTD ATE BY M. BOLDERS	98 08
	UPDATE FILM FOLDERS	98
_	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE WRIST PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SKULL WITHOUT	98
F164	HEAD UNITS	98
0212		98 98
G213	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE THORACIC SPINE	70

GROUP ID NUMBER AND TITLE: STANDARD PROCEDURES SUPERVISORS (GRP099)

NUMBER IN GROUP: 81 PERCENT OF SAMPLE: 12

AVERAGE GRADE: E-6 AVERAGE TICF: 125 TAFMS: 155

AVERAGE NUMBER OF TASKS PERFORMED: 196 JOB DIFFICULTY INDEX: 168

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		PERCENT MEMBERS
TASKS		PERFORMING
G179	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CHEST SHIELD PATIENTS DURING RADIOGRAPHIC EXAMINATIONS	100
G227	SHIELD PATIENTS DURING RADIOGRAPHIC EXAMINATIONS	100
G217	PREPARE EQUIPMENT AND MATERIALS FOR STANDARD RADIOGRAPHIC	
	EXAMINATIONS	100
G176	PERFORM PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ANKLE	100
G185	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FINGERS UPDATE FILM FOLDERS	100
F163	UPDATE FILM FOLDERS	100
F131	UPDATE FILM FOLDERS FILE RADIOGRAPHIC FILMS OR REPORTS UPDATE PATIENT NOMINAL INDEX CARD FILES PERFORM RADIOGRAPHIC EXAMINATIONS OF THE KNEE PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LUMBAR SPINE PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOREARM PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CERVICAL SPINE PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ABDOMEN PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SHOULDER	100
F164	UPDATE PATIENT NOMINAL INDEX CARD FILES	100
G192	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE KNEE	100
G194	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LUMBAR SPINE	100
G186	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOREARM	100
G178	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CERVICAL SPINE	100
G174	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ABDOMEN	100
G207	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SHOULDER	100
G182	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOREARM PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CERVICAL SPINE PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ABDOMEN PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SHOULDER PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ELBOW PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HIPS PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CLAVICLE PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PELVIS PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PELVIS	100
G202	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE RIBS	100
G189	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HIPS	100
G180	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CLAVICLE	100
G201	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PELVIS	100
G200	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PATELLA	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CALCANEOUS (OS CALCIS) PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FEMUR PERFORM RADIOGRAPHIC EXAMINATIONS OF THE NASAL SINUSES PREPARE FILM FILE ENVELOPES PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOOT PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HAND PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HAND	100
G184	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FEMUR	100
G199	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE NASAL SINUSES	99
F152	PREPARE FILM FILE ENVELOPES	99
G187	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOOT	99
G188	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HAND	99
F151	PICK UP, DELIVER, OR SIGN OUT RADIOGRAPHIC FILMS TO	
	PHYSICIANS	99
G215	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE WRIST	99
F161	SCHEDULE PATIENTS FOR RADIOGRAPHIC EXAMINATIONS	99
G214	PICK UP, DELIVER, OR SIGN OUT RADIOGRAPHIC FILMS TO PHYSICIANS PERFORM RADIOGRAPHIC EXAMINATIONS OF THE WRIST SCHEDULE PATIENTS FOR RADIOGRAPHIC EXAMINATIONS PERFORM RADIOGRAPHIC EXAMINATIONS OF THE TOES	99
G209	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SKULL WITHOUT HEAD	
	UNITS	99
G193	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LOWER LEG	99

GROUP ID NUMBER AND TITLE: ULTRASOUND AND STANDARD PROCEDURES FIRST-LINE SUPERVISORS (GRP102)

NUMBER IN GROUP: 32

PERCENT OF SAMPLE: 5
AVERAGE TICF: 67 TAFMS: 73 AVERAGE GRADE: E-4

JOB DIFFICULTY INDEX: 17.9

AVERAGE NUMBER OF TASKS PERFORMED: 191 JOB DIFFICULTY IN DAFSC DISTRIBUTION: (90330) 6 (90350) 78 (90370) 16

TASKS		PERCENT MEMBERS PERFORMING
J361	PERFORM OBSTETRIC ULTRASONOGRAPHY FOR FETAL AGE	
	DETERMINATION	100
J364	PERFORM OBSTETRIC ULTRASONOGRAPHY FOR LOCALIZATION OF	
	PLACENTA	100
J362	PERFORM OBSTETRIC ULTRASONOGRAPHY FOR FETAL ANOMALIES	100
J365	PERFORM OBSTETRIC ULTRASONOGRAPHY FOR MISCARRIAGES	100
J324	ADVISE PATIENTS OF ULTRASONOGRAPHY EXAMINATION PREPARATION	
	PROCEDURES	100
G179	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CHEST	100
J360	PERFORM OBSTETRIC ULTRASONOGRAPHY FOR ECTOPIC PREGNANCIES	100
G216	PREPARE AND POSITION PATIENTS FOR STANDARD RADIOGRAPHIC	
	EXAMINATIONS	100
J366	PERFORM OBSTETRIC ULTRASONOGRAPHY FOR MULTIPLE GESTATION	
	DETERMINATION	100
	LOAD OR UNLOAD CASSETTES	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HAND	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOOT	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FINGERS	100
G217	PREPARE EQUIPMENT AND MATERIALS FOR STANDARD RADIOGRAPHIC	
	EXAMINATIONS	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOREARM	100
F152	PREPARE FILM FILE ENVELOPES	100
	SHIELD PATIENTS DURING RADIOGRAPHIC EXAMINATIONS	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PARANASAL SINUSES	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE TOES	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CERVICAL SPINE	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LUMBAR SPINE	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SHOULDER	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ABDOMEN	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE KNEE	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE BOW	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HIPS	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LOWER LEG	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PELVIS	100
_	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE THORACIC SPINE	100
G202	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE RIBS	100

GROUP ID NUMBER AND TITLE: STANDARD RADIOGRAPHERS FIRST-LINE SUPERVISORS (GRP092)

NUMBER IN GROUP: 6 PERCENT OF SAMPLE: 1

AVERAGE GRADE: E-5

AVERAGE TICF: 79 TAFMS: 109

AVERAGE NUMBER OF TASKS PERFORMED: 108

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TASKS		PERCENT MEMBERS PERFORMING
G209		
	HEAD UNITS	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ABDOMEN	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ANKLE	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE TOES	100
G175		
	(A-C) JOINTS	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FEMUR	100
-	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FACIAL BONES	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FINGERS	100
G205	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SCAPULA	100
G177	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CALCANEOUS (OS	
	CALCIS)	100
G203	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SACROILIAC (S-I)	
	JOINTS	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE COCCYX	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SHOULDER	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CERVICAL SPINE	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PATELLA	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE STERNUM	100
G197	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE NASAL SERIES	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ELBOW	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PELVIS	100
A1	ASSIGN PERSONNEL TO DUTY POSITIONS	100
G210		
	ARTICULATION (S-C JOINTS)	10 0
G172	PERFORM LONG BONE STUDIES	100
G180	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CLAVICLE	100
G227	SHIELD PATIENTS DURING RADIOGRAPHIC EXAMINATIONS	100
G213	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE THORACIC SPINE	
G196	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE MASTOIDS	100
G204	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SACRUM	100
B51		83
G186	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOREARM	83

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GROUP ID NUMBER AND TITLE: STANDARD AND SPECIAL DIAGNOSTIC RADIOLOGISTS (GRP087)

NUMBER IN GROUP: 10 PERCENT OF SAMPLE: 1

AVERAGE GRADE: E-3 AVERAGE TICF: 36 TAFMS: 38

AVERAGE NUMBER OF TASKS PERFORMED: 50 JOB DIFFICULTY INDEX: 9.7 DAFSC DISTRIBUTION: (90330) 40 (90350) 50 (90370) 10

TASKS		PERCENT MEMBERS PERFORMING
G179	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CHEST PRODUCE RADIOGRAPHS DURING UPPER GASTROINTESTINAL (UGI)	100
H275	PRODUCE RADIOGRAPHS DURING UPPER GASTROINTESTINAL (UGI)	
	SERIES	100
H250	PRODUCE RADIOGRAPHS DURING BARIUM SWALLOW EXAMINATIONS PREPARE AND POSITION PATIENTS FOR STANDARD RADIOGRAPHIC	100
G216	PREPARE AND POSITION PATIENTS FOR STANDARD RADIOGRAPHIC	
	EXAMINATIONS	100
G174	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ABDOMEN	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PARANASAL SINUSES	
	PRODUCE RADIOGRAPHS DURING SMALL BOWEL SERIES	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LUMBAR SPINE	100
H244	PREPARE AND POSITION PATIENTS FOR SPECIAL RADIOGRAPHIC	
	PROCEDURES	90
	PRODUCE RADIOGRAPHS DURING BARIUM ENEMAS	90
G217	PREPARE EQUIPMENT AND MATERIALS FOR STANDARD RADIOGRAPHIC	
	EXAMINATIONS	90
H234		
	EXAMINATIONS USING FLUOROSCOPIC EQUIPMENT	90
G223	PRODUCE RADIOGRAPHS OF ADDITIONAL PROJECTIONS OF THE CHEST	90
G178	PRODUCE RADIOGRAPHS OF ADDITIONAL PROJECTIONS OF THE CHEST PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CERVICAL SPINE PERFORM RADIOGRAPHIC EXAMINATIONS OF THE WRIST	90
G207	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SHOULDER PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FINGERS	90
		90
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ELBOW	90
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOOT	90
G202	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE RIBS	90
G176	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ANKLE PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PELVIS PERFORM RADIOGRAPHIC EXAMINATIONS OF THE THORACIC SPINE	90
G201	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE PELVIS	90
G213	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE THORACIC SPINE	90
H240	PARTICIPATE IN TAKING SPOT FILMS DURING UPPER	
	GASTROINTESTINAL (UGI) SERIES USING FLUOROSCOPIC EQUIPMENT	80
H245	PREPARE EQUIPMENT AND SUPPLIES FOR SPECIAL RADIOGRAPHIC	
	PROCEDURES	80
H239		
	USING FLUOROSCOPIC EQUIPMENT	80

GROUP ID NUMBER AND TITLE: HOSPITAL PHASE II COURSE SUPERVISORS AND

INSTRUCTORS (GRP078)

NUMBER IN GROUP: 9 PERCENT OF SAMPLE: 1

AVERAGE GRADE: E-5 AVERAGE TICF: 81 TAFMS: 91

AVERAGE NUMBER OF TASKS PERFORMED: 232 JOB DIFFICULTY INDEX: 18.9 DAFSC DISTRIBUTION: (90330) 0 (90350) 44 (90370) 56

		PERCENT
		members
TASKS		PERFORMING
G227	SHIELD PATIENTS DURING RADIOGRAPHIC EXAMINATIONS	100
H246	PRODUCE RADIOGRAPHS DURING AIR CONTRAST ENEMAS	100
G178	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CERVICAL SPINE PRODUCE RADIOGRAPHS DURING BARIUM SWALLOW EXAMINATIONS	100
H250	PRODUCE RADIOGRAPHS DURING BARIUM SWALLOW EXAMINATIONS	100
H249	PRODUCE RADIOGRAPHS DURING BARIUM ENEMAS	100
H275	PRODUCE RADIOGRAPHS DURING UPPER GASTROINTESTINAL (UGI)	
	SERIES	100
	PERFORM BEDSIDE RADIOGRAPHY ON PATIENTS IN TRACTION	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE THORACIC SPINE	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FACIAL BONES	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FOOT	100
G194	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE LUMBAR SPINE	100
G209	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SKULL WITHOUT HEAD	
	UNITS	100
G179	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CHEST	100
L426	PRODUCE RADIOGRAPHS IN INTENSIVE CARE	100
G192	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE KNEE	100
G216	PREPARE AND POSITION PATIENTS FOR STANDARD RADIOGRAPHIC	
	EXAMINATIONS	100
G217	PREPARE EQUIPMENT AND MATERIALS FOR STANDARD BADIOGRAPHIC	
	EXAMINATIONS	100
	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE CLAVICLE	100
G185	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FINGERS	100
G186	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FINGERS PERFORM RADIOGRAPHIC EXAMINATIONS OF THE FEMILE	100
		1 00
	PRODUCE RADIOGRAPHS OF ADDITIONAL PROJECTIONS OF THE ABDOMEN	100
	PRODUCE RADIOGRAPHS DURING SMALL BOWEL SERIES	1 00
G225	PRODUCE RADIOGRAPHS OF ADDITIONAL PROJECTIONS OF THE RIBS	100
G214	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE TOES	1 00
	PRODUCE RADIOGRAPHS DURING CLOSED REDUCTIONS	100
G188	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE HAND	1 00
G207	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE SHOULDER	100
G182	PERFORM RADIOGRAPHIC EXAMINATIONS OF THE ELBOW	100
L427	PRODUCE RADIOGRAPHS IN NURSERIES	100
G221	PRODUCE RADIOGRAPHS OF ADDITIONAL PROJECTIONS OF THE LOWER	
	EXTREMITIES	100

TABLE All

GROUP ID NUMBER AND TITLE: SPECIAL DIAGNOSTIC RADIOGRAPHERS (GRP059)

NUMBER IN GROUP: 5 PERCENT OF SAMPLE: 1

AVERAGE GRADE: E-4 AVERAGE TICF: 29 TAFMS: 33

AVERAGE NUMBER OF TASKS PERFORMED: 105 JOB DIFFICULTY INDEX: 12.8

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TASKS		PERCENT MEMBERS PERFORMING
M441	IDENTIFY RADIOGRAPHIC FILMS WITH IDENTIFIER	100
H246	PRODUCE RADIOGRAPHS DURING AIR CONTRAST ENEMAS	100
H231	PARTICIPATE IN TAKING SPOT FILMS DURING AIR CONTRAST ENEMAS	
	USING FLUOROSCOPIC EQUIPMENT	100
H249	PRODUCE RADIOGRAPHS DURING BARIUM ENEMAS	100
H233	PARTICIPATE IN TAKING SPOT FILMS DURING BARIUM ENEMAS USING	
	FLUOROSCOPIC EQUIPMENT	100
H240	PARTICIPATE IN TAKING SPOT FILMS DURING UPPER	
	GASTROINTESTINAL (UGI) SERIES USING FLUOROSCOPIC EQUIPMENT	100
H275	PRODUCE RADIOGRAPHS DURING UPPER GASTROINTESTINAL (UGI)	
	SERIES	100
	PRODUCE RADIOGRAPHS DURING BARIUM SWALLOW EXAMINATIONS	100
H234	PARTICIPATE IN TAKING SPOT FILMS DURING BARIUM SWALLOW	
	EXAMINATIONS USING FLUOROSCOPIC EQUIPMENT	100
H232	PARTICIPATE IN TAKING SPOT FILMS DURING ARTHROGRAMS USING	
	FLUOROSCOPIC EQUIPMENT	100
	LOAD OR UNLOAD CASSETTES	100
H238	PARTICIPATE IN TAKING SPOT FILMS DURING ORAL	
	CHOLECYSTOGRAPHY USING FLUOROSCOPIC EQUIPMENT	100
	PRODUCE RADIOGRAPHS DURING ARTHROGRAPHY	100
	SHIELD PATIENTS DURING RADIOGRAPHIC EXAMINATIONS	100
	PRODUCE RADIOGRAPHS DURING SMALL BOWEL SERIES	100
	PRODUCE RADIOGRAPHS DURING CYSTOGRAPHY	100
	SET UP FLUOROSCOPIC EQUIPMENT WITH TV MONITOR	80
H245	PREPARE EQUIPMENT AND SUPPLIES FOR SPECIAL RADIOGRAPHIC	
	PROCEDURES	80
	SET UP FLUOROSCOPIC EQUIPMENT WITH IMAGE INTENSIFICATION	80
H244	PREPARE AND POSITION PATIENTS FOR SPECIAL RADIOGRAPHIC	
	PROCEDURES	80
0 520		
	OR RADIOGRAPHIC TECHNIQUES	80
	PRODUCE RADIOGRAPHS DURING ORAL CHOLECYSTOGRAPHY	80
H235	PARTICIPATE IN TAKING SPOT FILMS DURING ESOPHOGRAMS USING	
	FLUOROSCOPIC EQUIPMENT	80
H254	PRODUCE RADIOGRAPHS DURING INTRAVENOUS (EXCRETORY)	
	PYELOGRAPHY	80

GROUP ID NUMBER AND TITLE: ROTATING COMPUTERIZED TOMOGRAPHY TECHNICIANS (GRP065)

NUMBER IN GROUP: 5 PERCENT OF SAMPLE: 1
AVERAGE GRADE: E-5 AVERAGE TICF: 99 TAFMS: 106
AVERAGE NUMBER OF TASKS PERFORMED: 105 JOB DIFFICULTY INDEX: 13.9

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TASKS		PERCENT MEMBERS PERFORMING
F161	SCHEDULE PATIENTS FOR RADIOGRAPHIC EXAMINATIONS	100
B51	SUPERVISE RADIOLOGIC SPECIALISTS (AFSC 90350)	100
1297	PERFORM PRIORITY QUEUING	100
H228	ADMINISTER INTRAVENOUS (IV) INJECTIONS	100
I294	PERFORM CT/T SCANNER ARCHIVE PROCEDURES	100
1320	TRANSCRIBE CT/T DISPLAY CONSOLE INFORMATION ONTO PERMANENT COPY FILM	100
1296	PERFORM ENHANCED SCANS OF DESIGNATED BODY PARTS USING CT/T SCANNERS	100
1301	PERFORM UNENHANCED SCANS OF DESIGNATED BODY PARTS USING CT/T SCANNERS	100
1286		100
1291		100
1287		100
1207	ENHANCED SCANS	100
A22	PLAN OR SCHEDULE WORK ASSIGNMENTS	100
	INVENTORY SUPPLIES, EQUIPMENT, OR TOOLS	100
	COPY RADIOGRAPHS	100
	IDENTIFY PATIENT'S REACTION TO CONTRAST MEDIA	100
H229		100
	CONTRAST MEDIA	100
B48	• • • • • • • • • • • • • • • • • • • •	80
	KEY PATIENT INFORMATION INTO AUTOMATED DATA SYSTEMS	80
	UPDATE FILM FOLDERS	80
	ASSIGN IDENTIFICATION TO RADIOGRAPHIC RECORDS	80
	PERFORM REFORMATIONS FOR CT/T SCANS	
	PICK UP, DELIVER, OR SIGN OUT RADIOGRAPHIC FILMS TO PHYSICIANS	90
		80
· · -	LOAD OR UNLOAD CASSETTES	80
	FILE RADIOGRAPHIC FILMS OR REPORTS	80
F146	MAKE ENTRIES ON AUTHORIZATION FORMS FOR ADMINISTRATION OF	00
DEEE	ANESTHESIA OR INJECTIONS OF CONTRAST MEDIA	80
	SCHEDULE RADIOLOGY SERVICES WITH OTHER DEPARTMENTS	80 80
	ESTABLISH WORK PRIORITIES	80 80
£122	PREPARE FILM FILE ENVELOPES	80

GROUP ID NUMBER AND TITLE: ANGIOGRAPHY TECHNICIANS (GRP069)

NUMBER IN GROUP: 7 PERCENT OF SAMPLE: 1

AVERAGE GRADE: E-4 AVERAGE TICF: 48 TAFMS: 50

AVERAGE NUMBER OF TASKS PERFORMED: 60 JOB DIFFICULTY INDEX: 10.9

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TASKS		PERCENT MEMBERS PERFORMING
T306	PRODUCE RADIOGRAPHS DURING ABDOMINAL ANGIOGRAPHY	100
	PRODUCE RADIOGRAPHS DURING CEREBRAL ANGIOGRAPHY	100
	EMPLOY FILM SUBTRACTION TECHNIQUES	100
T213	PRODUCE RADIOGRAPHS DURING LOCALIZATION OF BIOLOGICAL	100
1313	ABNORMALITIES, SUCH AS ABSCESSES, LESIONS, OR MASSES	100
P550	PREPARE INSTRUMENTS FOR STERILIZATION	100
1302		100
1302	PROCEDURES	100
T303	PREPARE EQUIPMENT AND SUPPLIES FOR ADVANCED RADIOGRAPHIC	100
1505	PROCEDURES	100
¥398	SET UP AUTOMATIC PRESSURE INJECTORS	100
	MAINTAIN SPECIAL PROCEDURE EQUIPMENT TRAYS	100
1293		
	ARTERIALGRAMS	100
1288	COPY RADIOGRAPHS	100
	SET UP AUTOMATIC SERIAL FILM CHANGERS	100
I310		
	ANGIOGRAPHY	100
I316	PRODUCE RADIOGRAPHS DURING THORACIC ANGIOGRAPHY	100
K 405	SET UP FLUOROSCOPIC EQUIPMENT WITH TV MONITOR	100
	MAINTAIN FILM BINS	100
M448	MIX CHEMICAL PROCESSING SOLUTIONS	100
H244	PREPARE AND POSITION PATIENTS FOR SPECIAL RADIOGRAPHIC	
	PROCEDURES	86
	PRODUCE RADIOGRAPHS DURING VENOGRAPHY	86
	SET UP RADIOGRAPHIC STEP TABLES FOR RUNOFF PROCEDURES	86
M441	IDENTIFY RADIOGRAPHIC FILMS WITH IDENTIFIER	86
	PERFORM AUTOMATIC FILM PROCESSOR TURN-OFF PROCEDURES	86
	CLEAN AUTOMATIC FILM PROCESSOR CROSSOVERS	86
	CLEAN AUTOMATIC FILM PROCESSOR DEEP RACKS	86
	PERFORM AUTOMATIC FILM PROCESSOR TURN-ON PROCEDURES	86
	SET UP CARDIAC MONITORING EQUIPMENT	86
H245	PREPARE EQUIPMENT AND SUPPLIES FOR SPECIAL RADIOGRAPHIC PROCEDURES	71
M454	PROCESS RADIOGRAPHIC FILM AUTOMATICALLY OTHER THAN DURING	
	SURGERY	71
K404	SET UP FLUOROSCOPIC EQUIPMENT WITH IMAGE INTENSIFICATION	71

GROUP ID NUMBER AND TITLE: SENIOR NCOIC CLUSTER (GRP022)

NUMBER IN GROUP: 45

AVERAGE GRADE: E-6

AVERAGE TICF: 148

TAFMS: 182

AVERAGE NUMBER OF TASKS PERFORMED: 115

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TASKS		PERCENT MEMBERS PERFORMING
C74	WRITE APR	89
Al	ASSIGN PERSONNEL TO DUTY POSITIONS	89
B31	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED PROBLEMS	89
A10	ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES	87
B51	SUPERVISE RADIOLOGIC SPECIALISTS (AFSC 90350)	87
A13	ESTABLISH WORK PRIORITIES	84
B44	ESTABLISH WORK PRIORITIES INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES	84
A7	DEVELOP WORK METHODS OR PROCEDURES	84
A2	ASSIGN SPONSORS FOR NEWLY ASSIGNED PERSONNEL	84
	PLAN OR SCHEDULE WORK ASSIGNMENTS	82
C60		80
	ENDORSE AIRMAN PERFORMANCE REPORTS (APR)	80
B30		00
200	WITH MEDICAL EQUIPMENT REPAIR PERSONNEL	80
A25		80
A15		78
A9		, 0
	INSTRUCTIONS (OI), OR STANDING OPERATING PROCEDURES (SOP)	76
B37	EDIT OR REVIEW INCOMING OR OUTGOING CORRESPONDENCE	76
	EVALUATE WORK SCHEDULES	73
A6	COORDINATE WORK ORDERS OR REQUESTS WITH PLANT MANAGEMENT	
	PERSONNEL	73
B36	DRAFT CORRESPONDENCE	71
	EVALUATE MAINTENANCE OR USE OF WORKSPACE, EQUIPMENT, OR SUPPLIES	71
A16	MAINTAIN OPERATING FILES OF REGULATIONS, INSTRUCTIONS, OR	/1
AIU	POLICIES	71
CEE	ANALYZE WORKLOAD REQUIREMENTS	69
	INVENTORY SUPPLIES, EQUIPMENT, OR TOOLS	69
A14	MAINTAIN CALL ROSTERS OF TECHNOLOGISTS	69
B34		
	PLAN C'. PREPARE BRIEFINGS	69
	WRITE JUSTIFICATIONS FOR EQUIPMENT	67
	DIRECT PATIENT CARE PROCEDURES	67
	ESTABLISH REQUIREMENTS FOR SPACE, PERSONNEL, EQUIPMENT, OR	07
***	SUPPLIES	67

GROUP ID NUMBER AND TITLE: DIAGNOSTIC RADIOLOGY NCOIC (GRP089)

NUMBER IN GROUP: 8 PERCENT OF SAMPLE: 1

AVERAGE GRADE: E-1 AVERAGE TICF: 123 TAFMS: 196

AVERAGE NUMBER OF TASKS PERFORMED: 66 JOB DIFFICULTY INDEX: 12.6

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TASKS		PERCENT MEMBERS PERFORMING
A13	ESTABLISH WORK PRIORITIES	100
C60	EVALUATE COMPLIANCE WITH WORK STANDARDS	100
B51	SUPERVISE RADIOLOGIC SPECIALISTS (AFSC 90350)	100
A9	ESTABLISH ORGANIZATIONAL POLICIES, LOCAL OPERATING INSTRUCTIONS (OI), OR STANDING OPERATING PROCEDURES (SOP)	100
A 1	ASSIGN PERSONNEL TO DUTY POSITIONS	100
A22	PLAN OR SCHEDULE WORK ASSIGNMENTS	100
A10	ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES	100
A25	SCHEDULE LEAVES OR PASSES	100
	MAINTAIN CALL ROSTERS OF TECHNOLOGISTS	100
	ENDORSE AIRMAN PERFORMANCE REPORTS (APR)	100
A2	ASSIGN SPONSORS FOR NEWLY ASSIGNED PERSONNEL	100
B52	SUPERVISE RADIOLOGIC TECHNICIANS (AFSC 90370)	88
A 7	DEVELOP WORK METHODS OR PROCEDURES	88
B44	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES	88
07/		88
	WRITE APR DIRECT MAINTENANCE OR UTILIZATION OF EQUIPMENT OR SUPPLIES	88
B30	COORDINATE PREVENTIVE MAINTENANCE OF RADIOGRAPHIC EQUIPMENT	00
B 30	WITH MEDICAL EQUIPMENT REPAIR PERSONNEL	88
B49	SUPERVISE CIVILIAN PERSONNEL	88
	INVESTIGATE ACCIDENTS OR INCIDENTS	88
	IMPLEMENT GROUND SAFETY PROGRAMS	88
A3	CONSTRUCT ORGANIZATIONAL CHARTS	88
B36		75
	ANALYZE WORKLOAD REQUIREMENTS	75
B31	· · · · · · · · · · · · · · · · · · ·	75
B29		75
	MAINTAIN CORRESPONDENCE FILES	75
	DIRECT PATIENT CARE PROCEDURES	75
C75	WRITE CIVILIAN PERFORMANCE RATINGS OR SUPERVISORY APPRAISALS	75
A6	COORDINATE WORK ORDERS OR REQUESTS WITH PLANT MANAGEMENT PERSONNEL	75
P127	MAINTAIN CURRENT LISTINGS OF STANDARD RADIOGRAPHIC	75
	EXAMINATION PROCEDURES	75
C61	EVALUATE INDIVIDUALS FOR PROMOTION, DEMOTION, OR RECLASSIFICATION	75

GROUP ID NUMBER AND TITLE: RADIOLOGY NCOIC (GRP077)

NUMBER IN GROUP: 22 PERCENT OF SAMPLE: 3

AVERAGE GRADE: E-7 AVERAGE TICF: 180 TAFMS: 206

AVERAGE NUMBER OF TASKS PERFORMED: 168 JOB DIFFICULTY INDEX: 17.3

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TASKS		PERCENT MEMBERS PERFORMING
B 51	SUPERVISE RADIOLOGIC SPECIALISTS (AFSC 90350)	100
A9	ESTABLISH ORGANIZATIONAL POLICIES, LOCAL OPERATING	
	INSTRUCTIONS (OI), OR STANDING OPERATING PROCEDURES (SOP)	100
A27		100
A16	MAINTAIN OPERATING FILES OF REGULATIONS, INSTRUCTIONS, OR	
	POLICIES	100
A13	ESTABLISH WORK PRIORITIES	100
B44	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR	
	SUBORDINATES	100
B30	COORDINATE PREVENTIVE MAINTENANCE OF RADIOGRAPHIC EQUIPMENT	
	WITH MEDICAL REPAIR PERSONNEL	100
A7	DEVELOP WORK METHODS OR PROCEDURES	100
B31	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED	
	PROBLEMS	100
C64	EVALUATE MAINTENANCE OR USE OF WORKSPACE, EQUIPMENT, OR SUPPLIES	100
AZ	ASSIGN SPONSORS FOR NEWLY ASSIGNED PERSONNEL DRAFT BUDGET AND FINANCIAL REQUIREMENTS	100
Að	DRAFT BUDGET AND FINANCIAL REQUIREMENTS	95 25
	EVALUATE WORK SCHEDULES	9 5
	WRITE APR	95 05
	EVALUATE COMPLIANCE WITH WORK STANDARDS	95 25
	ASSIGN PERSONNEL TO DUTY POSITIONS	95
	EVALUATE JOB DESCRIPTIONS	95 25
	WRITE JOB DESCRIPTIONS	95
	SCHEDULE LEAVES OR PASSES	95
	MAINTAIN CORRESPONDENCE FILES	95
	ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES	91
	ANALYZE WORKLOAD REQUIREMENTS	91
	ENDORSE AIRMAN PERFORMANCE REPORTS (APR)	91
	EVALUATE BUDGET OR FINANCIAL REQUIREMENTS	91
	MAKE ENTRIES ON AF FORMS 601 (EQUIPMENT ACTION REQUEST)	91
A12	ESTABLISH REQUIREMENTS FOR SPACE, PERSONNEL, EQUIPMENT, OR SUPPLIES	91
C62	EVALUATE INSPECTION REPORTS OR PROCEDURES	91
	EDIT OR REVIEW INCOMING OR OUTGOING CORRESPONDENCE	91
_	MAINTAIN CURRENT LISTINGS OF STANDARD RADIOGRAPHIC	
	EXAMINATION PROCEDURES	91

GROUP ID NUMBER AND TITLE: MEDICAL CENTER AND REGIONAL HOSPITAL PHASE II COURSE SUPERVISORS (GRP088)

NUMBER IN GROUP: 7 PERCENT OF SAMPLE: 1

AVERAGE GRADE: E-6 AVERAGE TICF: 138 TAFMS: 160

AVERAGE NUMBER OF TASKS PERFORMED: 67 JOB DIFFICULTY INDEX: 13.4

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TASKS		PERCENT MEMBERS PERFORMING
E123	PROCURE TRAINING AIDS, SPACE, OR EQUIPMENT FOR PHASE II	
	TRAINING	100
E111	DEVELOP PHASE II COURSE LESSON PLANS	100
	CONDUCT PHASE II COURSE CLASSROOM TRAINING	100
E115	EVALUATE PROGRESS OF PHASE II STUDENTS	100
E122	PLAN OR SCHEDULE PHASE II COURSE PERFORMANCE TRAINING	100
	PLAN OR SCHEDULE PHASE II COURSE CLASSROOM TRAINING	100
	MAINTAIN PHASE II COURSE TRAINING RECORDS, CHARTS, OR GRAPHS	100
	COUNSEL PHASE II TRAINEES ON TRAINING PROGRESS	100
	CONDUCT PHASE II TRAINING CONFERENCE OR BRIEFINGS	100
	SUPERVISE APPRENTICE RADIOLOGIC SPECIALISTS (AFSC 90330)	100
	DETERMINE PHASE II COURSE TRAINING REQUIREMENTS	100
	PLAN OR SCHEDULE WORK ASSIGNMENTS	100
E118	MAIL PHASE II COURSE TRAINING RECORDS TO OTHER UNITS OR	
	AGENCIES	100
E108	COORDINATE PHASE II COURSE TRAINING POLICIES WITH OTHER UNITS	
	OR AGENCIES	100
A1	ASSIGN PERSONNEL TO DUTY POSITIONS	100
	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED PROBLEMS	100
	INITIATE HONOR GRADUATE RECOGNITION FOR PHASE II STUDENTS	100
	ADMINISTER TEST FOR PHASE II TRAINING	100
	SCORE PHASE II TRAINING WRITTEN TESTS	100
E125	WRITE RECOMMENDED CHANGES TO PHASE II COURSE TEST QUESTIONS	100
	INITIATE RECOMMENDATIONS FOR PROFICIENCY ADVANCEMENT OR	
	EXTENDED TRAINING OF PHASE II STUDENTS	100
E120	PARTICIPATE IN PHASE II INSTRUCTORS COURSE	100
E113	DISPOSE OF OBSOLETE FILES FOR GRADUATED OR DISENROLLED	
	PHASE II STUDENTS	100
E112	DIRECT PHASE II COURSE TRAINING PROGRAMS	86
B 51	SUPERVISE RADIOLOGIC SPECIALISTS (AFSC 90350)	86
F140	MAINTAIN TECHNICAL REFERENCE FILES	86
B37	MAINTAIN TECHNICAL REFERENCE FILES EDIT OR REVIEW INCOMING OR OUTGOING CORRESPONDENCE WRITE APR EVALUATE WORK SCHEDULES ASSIGN SPONSORS FOR NEWLY ASSIGNED PERSONNEL MAINTAIN CORRESPONDENCE FILES	86
C74	WRITE APR	86
C70	EVALUATE WORK SCHEDULES	86
A2	ASSIGN SPONSORS FOR NEWLY ASSIGNED PERSONNEL	86
A15	MAINTAIN CORRESPONDENCE FILES	86
	ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES	71

GROUP ID NUMBER AND TITLE: RADIATION THERAPISTS (GRP070)
NUMBER IN GROUP: 7 PERCENT OF SAMPLE: 1

AVERAGE GRADE: E-5 AVERAGE TICF: 76 TAFMS: 84

AVERAGE NUMBER OF TASKS PERFORMED: 73 JOB DIFFICULTY INDEX: 10.9

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		PERCENT MEMBERS
TASKS		PERFORMING
	PERFORM RADIATION THERAPY SIMULATIONS	100
N491	PERFORM MEGA VOLTAGE (COBALT 60) THERAPY	100
N485	PAINT THERAPY AREAS WITH CASTELLANI, INVISIBLE PAINT, OR INDIAN INK	100
NEIO	SCHEDULE PATIENTS FOR RADIATION THERAPY TREATMENTS	100
MADO	DEDUCTOR CYADAMA CARGAS ON CODYLA MARDYDA BOLLDARAM.	100
N499	PERFORM SAFETY CHECKS ON COBALT THERAPY EQUIPMENT SHIELD PATIENTS DURING RADIATION THERAPY TREATMENTS PERFORM FUNCTIONAL CHECKS ON RADIATION THERAPY EQUIPMENT ESTABLISH RAPPORT WITH PATIENTS UNDERGOING RADIOTHERAPY	100
N314	DEFECTIVE PRINCETOWAL CHARGE OF PARTAMENT TREATMENTS	100
N489	PERFORM FUNCTIONAL CHECKS ON RADIATION THERAPY EQUIPMENT	100
N46/	ESTABLISH RAPPORT WITH PATIENTS UNDERGUING RADIOTHERAPY	100
N470	IDENTIFY AND REPORT TO PHYSICIAN CONDITION OF PATIENTS DURING RADIATION THERAPY	100
N460	ALIGN OR ADJUST RADIATION THERAPY EQUIPMENT FOR PATIENT	100
.1400	SET-UPS	100
N/.76	MAINTAIN RECORDS OF PATIENT'S BLOOD COUNT	100
	APPLY BOLUS TO TREATMENT AREAS	100
	CHANGE DRESSINGS	100
MEUE	POSITION PATIENTS FOR RADIOTHERAPY TREATMENTS	86
N303	INSTRUCT PATIENTS PRIOR TO ADMINISTRATION OF RADIATION	00
N4/1	THERAPY	86
N468	FABRICATE SHIELDING MASKS	86
	WEIGH PATIENTS	86
	ATTACH CONES AND FILTERS TO X-RAY EQUIPMENT FOR THERAPY	86
N495	PERFORM RADIATION PROTECTION PROCEDURES FOR PATIENT AND	
	TECHNOLOGIST DURING RADIATION THERAPY	86
N486	PARTICIPATE WITH RADIOTHERAPIST OR PHYSICIST IN MANUAL	
	DOSIMETRY	86
N466	COUNSEL PATIENTS ADJUSTING TO SPECIAL PROBLEMS RELATED TO RADIATION THERAPY86	
N487	PARTICIPATE WITH RADIOTHERAPIST OR PHYSICIST IN DOSIMETRY	
	USING MECHANICAL OR ELECTRONIC DEVICES	86
T288	COPY RADIOGRAPHS	86
	ESCORT PATIENTS TO OR FROM LITTERS OR WHEEL CHAIRS	71
	PROCESS RADIOGRAPHIC FILM AUTOMATICALLY OTHER THAN DURING	' -
*****	SURGERY	71
M436	CLEAN AUTOMATIC FILM PROCESSOR CROSSOVERS	71
	MEASURE PATIENTS USING CALIPERS	71
	SCHEDULE PATIENTS FOR CONSULTANT EXAMINATIONS	71
E JJ4	COMPACTOR LATERIA LAW CONSCITUAL EVENTUATIONS	/ L

GROUP ID NUMBER AND TITLE: ULTRASOUND TECHNICIANS (GRP090)

NUMBER IN GROUP: 12

AVERAGE GRADE: E-5

AVERAGE TICF: 78

AVERAGE TICF: 78

TAFMS: 90

AVERAGE NUMBER OF TASKS PERFORMED: 69

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TASKS		PERCENT MEMBERS PERFORMING
J361	PERFORM OBSTETRIC ULTRASONOGRAPHY FOR FETAL AGE DETERMINATION	100
J363	PERFORM OBSTETRIC ULTRASONOGRAPHY FOR LOCALIZATION OF FETUS	100
	PERFORM OBSTETRIC ULTRASONOGRAPHY FOR FETAL ANOMALIES	100
J348	PERFORM GALL BLADDER ULTRASONOGRAPHY	100
J328	PERFORM ABDOMINAL (GENERAL) ULTRASONOGRAPHY	100
	PERFORM BILIARY SYSTEM ULTRASONOGRAPHY	100
J374	PERFORM PELVIC ULTRASONOGRAPHY 100	
J364	PERFORM OBSTETRIC ULTRASONOGRAPHY FOR LOCALIZATION OF	
	PLACENTA	100
	MAINTAIN ULTRASOUND RECORDS	100
	PERFORM LIVER ULTRASONOGRAPHY 100	
	PERFORM OBSTETRIC ULTRASONOGRAPHY FOR ECTOPIC PREGNANCIES	
J350	PERFORM HEPATIC ULTRASONOGRAPHY	100
J365	PERFORM OBSTETRIC ULTRASONOGRAPHY FOR MISCARRIAGES	100
J331	PERFORM AORTIC ULTRASONOGRAPHY 100	
	PERFORM OBSTETRIC ULTRASONOGRAPHY FOR AMNIOCENTESIS	
	PERFORM SPLENIC ULTRASONOGRAPHY	100
	PERFORM PANCREATIC ULTRASONOGRAPHY	92
J324	ADVISE PATIENTS OF ULTRASONOGRAPHY EXAMINATION PREPARATION	
	PROCEDURES	92
	PERFORM RENAL ULTRASONOGRAPHY	92
J366	PERFORM OBSTETRIC ULTRASONOGRAPHY FOR MULTIPLE GESTATION	
	DETERMINATION	92
J359	PERFORM OBSTETRIC ULTRASONOGRAPHY FOR AMNIOTIC FLUID	
	DETERMINATION	92
	PERFORM THYROID ULTRASONOGRAPHY	92
	PERFORM INFERIOR VENACAVA ULTRASONOGRAPHY	92
	PERFORM RENAL ARTERY ULTRASONOGRAPHY	92
	PERFORM BAKER CYST ULTRASONOGRAPHY	92
J382	PERFORM RETROPERITONEAL ULTRASONOGRAPHY	83
J392	PREPARE EQUIPMENT AND SUPPLIES FOR ULTRASONOGRAPHY	
	PROCEDURES	75 75
	PERFORM PORTABLE ULTRASONOGRAPHY PROCEDURES	75
	PERFORM POPLITEAL ULTRASONOGRAPHY 75	
	ADJUST CONTRAST OF ULTRASONOGRAPHY CAMERAS	75
J325	COORDINATE ULTRASOUND EQUIPMENT REPAIRS WITH EQUIPMENT	35
	MANUFACTURERS OR MEDICAL MAINTENANCE PERSONNEL	75

GROUP ID NUMBER AND TITLE: ADMINISTRATIVE PERSONNEL (GRP053)

NUMBER IN GROUP: 7 PERCENT OF SAMPLE: 1

AVERAGE GRADE: E-4 AVERAGE TICF: 50 TAFMS: 59

AVERAGE NUMBER OF TASKS PERFORMED: 10 JOB DIFFICULTY INDEX: 2.1

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P152 PREPARE FILM FILE ENVELOPES F163 UPDATE FILM FOLDERS F151 PICK UP, DELIVER, OR SIGN OUT RADIOGRAPHIC FILMS TO PHYSICIANS F131 FILE RADIOGRAPHIC FILMS OR REPORTS F132 IDENTIFY FILMS RECEIVED FROM HOSPITALS, CLINICS, CIVILIAN FACILITIES, OR GOVERNMENT AGENCIES F150 MATCH RADIOGRAPHIC FILMS TO SF FORMS 519A (RADIOGRAPHIC REPORT) F154 PREPARE REQUESTS FOR FILMS FROM OTHER HOSPITALS, CLINICS, CIVILIAN FACILITIES, OR GOVERNMENT AGENCIES F136 MAIL RADIOGRAPHIC FILMS F130 DISTRIBUTE COMPLETED RADIOGRAPHIC REPORTS TO PHYSICIANS F135 KEY PATIENT INFORMATION INTO AUTOMATED DATA SYSTEMS A7 DEVELOP WORK METHODS OR PROCEDURES F553 RECORD RESULTS OF EXPERIMENTS A14 MAINTAIN CALL ROSTERS OF TECHNOLOGISTS F156 REPLY TO INQUIRIES FROM MEDICAL PERSONNEL REGARDING PATIENT'S CONDITION F140 MAINTAIN TECHNICAL REFERENCE FILES F161 SCHEDULE PATIENTS FOR RADIOGRAPHIC EXAMINATIONS O522 INSPECT FILM FOR PROPER LABELING F128 ASSIGN IDENTIFICATION TO RADIOGRAPHIC RECORDS F134 INVENTORY SUPPLIES, EQUIPMENT, OR TOOLS F145 MAKE ENTRIES ON AF FORMS 601 (EQUIPMENT ACTION REQUEST)	PERFORMING
F151 PICK UP, DELIVER, OR SIGN OUT RADIOGRAPHIC FILMS TO PHYSICIANS F131 FILE RADIOGRAPHIC FILMS OR REPORTS F132 IDENTIFY FILMS RECEIVED FROM HOSPITALS, CLINICS, CIVILIAN FACILITIES, OR GOVERNMENT AGENCIES F150 MATCH RADIOGRAPHIC FILMS TO SF FORMS 519A (RADIOGRAPHIC REPORT) F154 PREPARE REQUESTS FOR FILMS FROM OTHER HOSPITALS, CLINICS, CIVILIAN FACILITIES, OR GOVERNMENT AGENCIES F136 MAIL RADIOGRAPHIC FILMS F130 DISTRIBUTE COMPLETED RADIOGRAPHIC REPORTS TO PHYSICIANS F135 KEY PATIENT INFORMATION INTO AUTOMATED DATA SYSTEMS A7 DEVELOP WORK METHODS OR PROCEDURES	100
PHYSICIANS F131 FILE RADIOGRAPHIC FILMS OR REPORTS F132 IDENTIFY FILMS RECEIVED FROM HOSPITALS, CLINICS, CIVILIAN FACILITIES, OR GOVERNMENT AGENCIES F150 MATCH RADIOGRAPHIC FILMS TO SF FORMS 519A (RADIOGRAPHIC REPORT) F154 PREPARE REQUESTS FOR FILMS FROM OTHER HOSPITALS, CLINICS, CIVILIAN FACILITIES, OR GOVERNMENT AGENCIES F136 MAIL RADIOGRAPHIC FILMS F130 DISTRIBUTE COMPLETED RADIOGRAPHIC REPORTS TO PHYSICIANS F135 KEY PATIENT INFORMATION INTO AUTOMATED DATA SYSTEMS A7 DEVELOP WORK METHODS OR PROCEDURES	100
F131 FILE RADIOGRAPHIC FILMS OR REPORTS F132 IDENTIFY FILMS RECEIVED FROM HOSPITALS, CLINICS, CIVILIAN FACILITIES, OR GOVERNMENT AGENCIES F150 MATCH RADIOGRAPHIC FILMS TO SF FORMS 519A (RADIOGRAPHIC REPORT) F154 PREPARE REQUESTS FOR FILMS FROM OTHER HOSPITALS, CLINICS, CIVILIAN FACILITIES, OR GOVERNMENT AGENCIES F136 MAIL RADIOGRAPHIC FILMS F130 DISTRIBUTE COMPLETED RADIOGRAPHIC REPORTS TO PHYSICIANS F135 KEY PATIENT INFORMATION INTO AUTOMATED DATA SYSTEMS A7 DEVELOP WORK METHODS OR PROCEDURES	86
F132 IDENTIFY FILMS RECEIVED FROM HOSPITALS, CLINICS, CIVILIAN FACILITIES, OR GOVERNMENT AGENCIES F150 MATCH RADIOGRAPHIC FILMS TO SF FORMS 519A (RADIOGRAPHIC REPORT) F154 PREPARE REQUESTS FOR FILMS FROM OTHER HOSPITALS, CLINICS, CIVILIAN FACILITIES, OR GOVERNMENT AGENCIES F136 MAIL RADIOGRAPHIC FILMS F130 DISTRIBUTE COMPLETED RADIOGRAPHIC REPORTS TO PHYSICIANS F135 KEY PATIENT INFORMATION INTO AUTOMATED DATA SYSTEMS A7 DEVELOP WORK METHODS OR PROCEDURES	86
F150 MATCH RADIOGRAPHIC FILMS TO SF FORMS 519A (RADIOGRAPHIC REPORT) F154 PREPARE REQUESTS FOR FILMS FROM OTHER HOSPITALS, CLINICS, CIVILIAN FACILITIES, OR GOVERNMENT AGENCIES F136 MAIL RADIOGRAPHIC FILMS F130 DISTRIBUTE COMPLETED RADIOGRAPHIC REPORTS TO PHYSICIANS F135 KEY PATIENT INFORMATION INTO AUTOMATED DATA SYSTEMS A7 DEVELOP WORK METHODS OR PROCEDURES	
REPORT) F154 PREPARE REQUESTS FOR FILMS FROM OTHER HOSPITALS, CLINICS, CIVILIAN FACILITIES, OR GOVERNMENT AGENCIES F136 MAIL RADIOGRAPHIC FILMS F130 DISTRIBUTE COMPLETED RADIOGRAPHIC REPORTS TO PHYSICIANS F135 KEY PATIENT INFORMATION INTO AUTOMATED DATA SYSTEMS A7 DEVELOP WORK METHODS OR PROCEDURES	71
F154 PREPARE REQUESTS FOR FILMS FROM OTHER HOSPITALS, CLINICS, CIVILIAN FACILITIES, OR GOVERNMENT AGENCIES F136 MAIL RADIOGRAPHIC FILMS F130 DISTRIBUTE COMPLETED RADIOGRAPHIC REPORTS TO PHYSICIANS F135 KEY PATIENT INFORMATION INTO AUTOMATED DATA SYSTEMS A7 DEVELOP WORK METHODS OR PROCEDURES	E 7
CIVILIAN FACILITIES, OR GOVERNMENT AGENCIES F136 MAIL RADIOGRAPHIC FILMS F130 DISTRIBUTE COMPLETED RADIOGRAPHIC REPORTS TO PHYSICIANS F135 KEY PATIENT INFORMATION INTO AUTOMATED DATA SYSTEMS A7 DEVELOP WORK METHODS OR PROCEDURES	57
F136 MAIL RADIOGRAPHIC FILMS F130 DISTRIBUTE COMPLETED RADIOGRAPHIC REPORTS TO PHYSICIANS F135 KEY PATIENT INFORMATION INTO AUTOMATED DATA SYSTEMS A7 DEVELOP WORK METHODS OR PROCEDURES	E 7
	57 5.7
	3/ /2
	43
	29
A14 MAINTAIN CALL ROSTERS OF TECHNOLOGISTS	
A14 MAINTAIN CALL RUSIERS OF TECHNOLOGISTS	14
BICC DUDY TO INCHIBITE BROW MORIOLI DEBCONNET DECLERING DATIFIED	14
COMPTATON	14
CONDITION	14
EIGI COUPNITE DAMIPUMO POD DANIOODADUIO PYANINATIONO	14
VESS INCORM BIN BUD DRUDED INDELING EVANIMATIONS	14
AIJO VEGICA INDRALBICALION AU DVUIUCDYDAIL BECUDDE	14
513V LEAGURALUDA GIIDDI LEG AULIDRIAMA UD AUVI G	14
PIAS WARD ENTEDTES ON AP PODMS AND (FOUTDMENT ACTION DESCRIPCE)	14
F145 MAKE ENTRIES ON AF FORMS 601 (EQUIPMENT ACTION REQUEST) F147 MAKE ENTRIES ON DD FORMS 1150 (REQUEST FOR ISSUE OR TURN-IN)	14
F149 MAKE ENTRIES ON SF FORMS 135 (RECORDS TRANSMITTAL AND	14
RECEIPT)	14
F145 PREPARE REQUESTS FOR LOCAL PURCHASE OF ITEMS	14
RECEIPT) F145 PREPARE REQUESTS FOR LOCAL PURCHASE OF ITEMS B51 SUPERVISE RADIOLOGIC SPECIALISTS (AFSC 90350) F160 REVIEW, RETIRE, OR DISPOSE OF RADIOGRAPHIC FILMS AND INDEXES	14
F160 REVIEW, RETIRE, OR DISPOSE OF RADIOGRAPHIC FILMS AND INDEXES	14
H283 PRODUCE RADIOGRAPHS OF MAMMIOGRAPHIC LOCALIZATIONS	14
F162 TYPE CORRESPONDENCE	14
F162 TYPE CORRESPONDENCE B37 EDIT OR REVIEW INCOMING OR OUTGOING CORRESPONDENCE B48 SUPERVISE APPRENTICE RADIOLOGIC SPECIALISTS (AFSC 90330)	14
B48 SUPERVISE APPRENTICE RADIOLOGIC SPECIALISTS (AFSC 90330)	14
C74 WRITE APR	14

GROUP ID NUMBER AND TITLE: PHASE I INSTRUCTORS (GRP020)

NUMBER IN GROUP: 18 PERCENT OF SAMPLE: 3

AVERAGE GRADE: E-5 AVERAGE TICF: 80 TAFMS: 89

AVERAGE NUMBER OF TASKS PERFORMED: 27 JOB DIFFICULTY INDEX: 7.1

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TASKS		MEMBERS PERFORMING
D82	CONDUCT PHASE I COURSE CLASSROOM TRAINING	89
D100	SCORE TEST OTHER THAN FOR PHASE II COURSE TRAINING	83
D93		72
	WRITE TEST QUESTIONS OTHER THAN FOR PHASE II COURSE	
	TRAINING	72
D78	ADMINISTER TEST OTHER THAN FOR PHASE II COURSE TRAINING	61
0521	THENTIES DANIACDADUIC WILM ARTIFACTS	61
B31	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED PROBLEMS	56
M450	PERFORM AUTOMATIC FILM PROCESSOR TURN-OFF PROCEDURES	56
M451	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED PROBLEMS PERFORM AUTOMATIC FILM PROCESSOR TURN-OFF PROCEDURES PERFORM AUTOMATIC FILM PROCESSOR TURN-ON PROCEDURES	56
D84	COUNSEL TRAINEES ON TRAINING PROGRESS OTHER THAN FOR PHASE II	
	COURSE TRAINING	50
P543	PARTICIPATE IN DISASTER EXERCISES	50
	VISUALLY INSPECT PROCESSING EQUIPMENT	50
D88	DEVELOP BASIC RESIDENT COURSE CURRICULA, PLANS OF	
	INSTRUCTION (POI), OR SPECIALTY TRAINING STANDARDS (STS)	44
B53	WRITE RECOMMENDED CHANGES TO MANUALS OR TECHNICAL	
	PUBLICATIONS	44
	MIX CHEMICAL PROCESSING SOLUTIONS	44
	INSPECT FILM FOR PROPER LABELING	39
0520	IDENTIFY FILM QUALITY PROBLEMS, SUCH AS IMPROPER POSITIONING	
	OR RADIOGRAPHIC TECHNIQUES	39
	LOAD OR UNLOAD CASSETTES	39
	DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	33
D94	EVALUATE TRAINING METHODS, TECHNIQUES, OR PROGRAMS OTHER THAN	
	PHASE II COURSE TRAINING	33
	MAINTAIN FILM BINS	33
	DEVELOP WORK METHODS OR PROCEDURES	33
C74		33
A1	ASSIGN PERSONNEL TO DUTY POSITIONS	33
M433	ADJUST COMPONENTS OF AUTOMATIC FILM PROCESSING MACHINES, SUCH	
	AS, ROLLERS, SPRINGS OR REPLENISHER RATES	33
0516	CORRECT RADIOGRAPHIC FILM ARTIFACTS EVALUATE FILM STRIPS BY VISUAL INSPECTIONS BETT OF THE PROPERTY OF THE PRO	33
0517	EVALUATE FILM STRIPS BY VISUAL INSPECTIONS	33
F34/	PERFORM RADIOLOGIC RESCARCE	20
C60	EVALUATE COMPLIANCE WITH WORK STANDARDS	28

GROUP ID NUMBER AND TITLE: A- AND B-SHIFT INSTRUCTORS (GRP050)

NUMBER IN GROUP: 5 PERCENT OF SAMPLE: 1

AVERAGE GRADE: E-5 AVERAGE TICF: 79 TAFMS: 81

AVERAGE NUMBER OF TASKS PERFORMED: 46 JOB DIFFICULTY INDEX: 7.5

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		PERCENT MEMBERS
TASKS		PERFORMING
D82	CONDUCT PHASE I COURSE CLASSROOM TRAINING	100
	PARTICIPATE IN DISASTER EXERCISES	100
	VISUALLY INSPECT PROCESSING EQUIPMENT	100
M448	MIX CHEMICAL PROCESSING SOLUTIONS	100
M450	PERFORM AUTOMATIC FILM PROCESSOR TURN-OFF PROCEDURES	100
M451	PERFORM AUTOMATIC FILM PROCESSOR TURN-ON PROCEDURES	100
	LOAD OR UNLOAD CASSETTES	100
D100	SCORE TEST OTHER THAN FOR PHASE II COURSE TRAINING	80
	WRITE TEST QUESTIONS OTHER THAN FOR PHASE II COURSE TRAINING	
	MAINTAIN FILM BINS	80
M433	ADJUST COMPONENTS OF AUTOMATIC FILM PROCESSING MACHINES, SUCH	
	AS, ROLLERS, SPRINGS OR REPLENISHER RATES	80
0521	IDENTIFY RADIOGRAPHIC FILM ARTIFACTS	80
0516	CORRECT RADIOGRAPHIC FILM ARTIFACTS	80
0519	EVALUATE RADIOGRAPHIC UNITS USING STEP WEDGE TESTS	80
0517	EVALUATE FILM STRIPS BY VISUAL INSPECTIONS	80
0518	EVALUATE FILM STRIPS USING DENSITOMETERS	80
0524	PERFORM FILM PROCESSING CONTROL PROCEDURES USING	
	SENSITOMETER	80
	PERFORM FILM PROCESSING CONTROL PROCEDURES USING STEPWEDGES	80
	CLEAN AUTOMATIC FILM PROCESSOR CROSSOVERS	80
	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED PROBLEMS	60
G167	DETERMINE EXPOSURE FACTORS USING STANDARDIZED RADIOGRAPHIC	
	TECHNIQUE CHARTS	60
	PERFORM HOUSEKEEPING SERVICES	60
	CONDUCT OJT	60
D93	EVALUATE PROGRESS OF PHASE I RESIDENT COURSE STUDENTS	60
	ASSIGN PERSONNEL TO DUTY POSITIONS	60
	CHECK DARKROOM PASSBOXES OR PORTS FOR LIGHT LEAKS	60
D85	DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION NUMBER CASSETTES OR SCREENS FOR IDENTIFICATION	60
		60
0520	IDENTIFY FILM QUALITY PROBLEMS, SUCH AS IMPROPER POSITIONING	
	OR RADIOGRAPHIC TECHNIQUES	60
	INSPECT FILM FOR PROPER LABELING	60
	TEST FOR SECONDARY (SCATTER) RADIATION	60
	LABEL CASSETTES FOR SCREEN SPEED	60
M438	CLEAN DARKROOM FACILITIES	60

GROUP ID NUMBER AND TITLE: C-SHIFT INSTRUCTORS (GRP051)

NUMBER IN GROUP: 7 PERCENT OF SAMPLE: 1

AVERAGE GRADE: E-5 AVERAGE TICF: 67 TAFMS: 69

AVERAGE NUMBER OF TASKS PERFORMED: 19 JOB DIFFICULTY INDEX: 7.9

DAFSC DISTRIBUTION: (90330) 0 (90350) 71 (90370) 29

TASKS		PERCENT MEMBERS PERFORMING
D93	EVALUATE PROGRESS OF PHASE I RESIDENT COURSE STUDENTS	100
D82	CONDUCT PHASE I COURSE CLASSROOM TRAINING	100
D100	SCORE TEST OTHER THAN FOR PHASE II COURSE TRAINING	100
D78		100
D102	WRITE TEST QUESTIONS OTHER THAN FOR PHASE II COURSE TRAINING	100
D84	COUNSEL TRAINEES ON TRAINING PROGRESS OTHER THAN FOR PHASE II	
	COURSE TRAINING	86
D94	EVALUATE TRAINING METHODS, TECHNIQUES, OR PROGRAMS OTHER THAN	
	PHASE II COURSE TRAINING	71
B31	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED PROBLEMS	71
D88	DEVELOP BASIC RESIDENT COURSE CURRICULA, PLANS OF	
	INSTRUCTION (POI)S, OR SPECIALTY TRAINING STANDARDS (STS)	57
P547	PERFORM RADIOLOGIC RESEARCH	57
0521	IDENTIFY RADIOGRAPHIC FILM ARTIFACTS	57
B48	SUPERVISE APPRENTICE RADIOLOGIC SPECIALISTS (AFSC 90330)	43
	EVALUATE COMPLIANCE WITH WORK STANDARDS	43
B53		
	PUBLICATIONS	43
0520	IDENTIFY FILM QUALITY PROBLEMS, SUCH AS IMPROPER POSITIONING	
	OR RADIOGRAPHIC TECHNIQUES	43
B44	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR	
	Subordinates	43
A7		43
	PARTICIPATE IN DISASTER EXERCISES	43
	ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES	43
	PERFORM AUTOMATIC FILM PROCESSOR TURN-OFF PROCEDURES	43
	PERFORM AUTOMATIC FILM PROCESSOR TURN-ON PROCEDURES	43
	DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	29
D95	MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS OTHER THAN FOR	
	PHASE II COURSE TRAINING	29
A16	MAINTAIN OPERATING FILES OF REGULATIONS, INSTRUCTIONS, OR	
	POLICIES	29
F148	MAKE ENTRIES ON DD FORMS 844 (REQUISITION FOR LOCAL	
	DUPLICATION SERVICE)	29
F127	ADVISE PATIENTS REGARDING HAZARDS OF RADIOGRAPHIC	
	EXAMINATIONS DURING PREGNANCY	29
M448	MIX CHEMICAL PROCESSING SOLUTIONS	29

GROUP ID NUMBER AND TITLE: COMPUTERIZED TOMOGRAPHY TECHNICIANS (GRP049)

NUMBER IN GROUP: 5

AVERAGE GRADE: E-4

AVERAGE TICF: 70 TAFMS: 71

AVERAGE NUMBER OF TASKS PERFORMED: 21

DAFSC DISTRIBUTION: (90330) 0 (90350) 80 (90370) 20

		PERCENT MEMBERS
TASKS		PERFORMING
1296	PERFORM ENHANCED SCANS OF DESIGNATED BODY PARTS USING CT/T	100
700/	SCANNERS	100
	PERFORM CT/T SCANNERS ARCHIVE PROCEDURES	100
1286	ADJUST COMPUTERIZED TOMOGRAPHIC BODY (CT/T) SCANNER GANTRY FOR PATIENT POSITIONING	100
1287	ADJUST FLOW RATE OF INTRAVENEOUS (IV) INJECTIONS DURING	
	ENHANCED SCANS	100
1320	TRANSCRIBE CT/T DISPLAY CONSOLE INFORMATION ONTO PERMANENT	
	COPY FILM	80
1299	PERFORM REVIEW PROGRAMS FOR CT/T SCANS BY RESTORING RAW DATA	80
1295	PERFORM DYNAMIC SCANS	80
1298	PERFORM REFORMATIONS FOR CT/T SCANS	80
I301	PERFORM UNENHANCED SCANS OF DESIGNATED BODY PARTS USING CT/T	
	SCANNERS	80
1297	PERFORM PRIORITY QUEUING	80
1291	KEY PATIENT BIOGRAPHICAL INFORMATION INTO CT/T SCANNER	80
TOOS	COMPUTERS PROPRIES MACRIFICATION PARTOCRAPHS FOR CT/T SCANS	80 80
	PRODUCE MAGNIFICATION RADIOGRAPHS FOR CT/T SCANS PERFORM COMPUTERIZED TOMOGRAPHIC TOTAL BODY CT/T SCANNER	80
K39/		60
B/0	WARM UP PROCEDURES	60
B48		40
	SCHEDULE PATIENTS FOR RADIOGRAPHIC EXAMINATIONS	40
	PREPARE FILM FILE ENVELOPES	40
	SUPERVISE RADIOLOGIC SPECIALISTS (AFSC 90350)	40
	WRITE APR	40
	IDENTIFY PATIENT'S REACTION TO CONTRAST MEDIA	40
_	LOAD OR UNLOAD CASSETTES	40
H229		40
	CONTRAST MEDIA	40
	PERFORM AUTOMATIC FILM PROCESSOR TURN-OFF PROCEDURES	40
	PERFORM AUTOMATIC FILM PROCESSOR TURN-ON PROCEDURES	40
	SCHEDULE RADIOLOGY SERVICES WITH OTHER DEPARTMENTS	20
	SCHEDULE PATIENTS FOR CONSULTANT EXAMINATIONS	20
	ADMINISTER INTRAVENOUS (IV) INJECTIONS	20
H243	PERFORM SENSITIVITY TEST FOR ALLERGIC REACTIONS TO CONTRAST	20
	MEDIA	20

